FUNAI

# SERVICE MANUAL

**Main Section**
- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's
- Exploded views
- Parts List

**When servicing the deck mechanism, refer to MK14 Deck Mechanism Section.**

**Deck Mechanism Part No.: N25E1FL**

## DVD/Video Cassette Recorder with HDD

# T3A-A8182DB/
# T3A-D8182DB/
# T3D-D8182DB

VHS PAL

# MAIN SECTION

## DVD/Video Cassette Recorder with HDD

# T3A-A8182DB/ T3A-D8182DB/ T3D-D8182DB

**Main Section**

- **Specifications**
- **Preparation for Servicing**
- **Adjustment Procedures**
- **Schematic Diagrams**
- **CBA's**
- **Exploded Views**
- **Parts List**

## TABLE OF CONTENTS


Specifications . . . . . 1-1-1
Laser Beam Safety Precautions . . . . . 1-2-1
Important Safety Precautions . . . . . 1-3-1
Standard Notes for Servicing . . . . . 1-4-1
Handling Precautions for HDD . . . . . 1-5-1
Preparation for Servicing . . . . . 1-6-1
Cabinet Disassembly Instructions . . . . . 1-7-1
Electrical Adjustment Instructions . . . . . 1-8-1
How to Self-Check and Initialize the DVD/VCR with HDD . . . . . 1-9-1
Firmware Renewal Mode . . . . . 1-10-1
Function Indicator Symbols . . . . . 1-11-1
Block Diagrams . . . . . 1-12-1
Schematic Diagrams / CBA's and Test Points . . . . . 1-13-1
Waveforms . . . . . 1-14-1
Wiring Diagram . . . . . 1-15-1
IC Pin Function Descriptions . . . . . 1-16-1
Lead Identifications . . . . . 1-17-1
Exploded Views . . . . . 1-18-1
Mechanical Parts List . . . . . 1-19-1
Electrical Parts List . . . . . 1-20-1

# SPECIFICATIONS

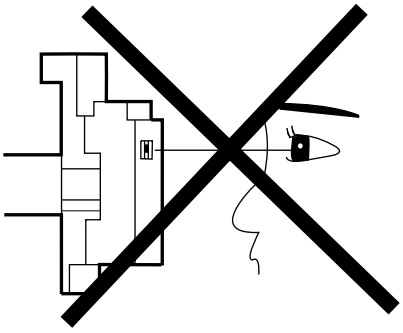
| ITEM | Specifications |
|---|---|
| **General** | |
| HDD | Internal 3.5 inch HDD 250 GB |
| Power consumption | 60W (standby: 8.0W) |
| **Recording** | |
| Recording format | Video Recording format (DVD-RW only)<br>Video format (DVD-RW, DVD-R) |
| Recordable discs | DVD-ReWritable<br>DVD-Recordable |
| Video recording format<br>Sampling frequency<br>Compression format | <br>13.5MHz<br>MPEG |
| Audio recording format<br>Sampling frequency<br>Compression format | <br>48kHz<br>Dolby Digital |
| **Tuner** | |
| Receivable channels | E2-E69 |
| **Input/Output** | |
| Video input<br>Input level<br>Jacks | AV3 (front)<br>1 Vp-p (75Ω)<br>RCA jack |
| S-Video input<br>Y (luminance) - Input level<br>C (color) - Input level<br>Jacks | AV3 (front)<br>1 Vp-p (75Ω)<br>300 mVp-p (75Ω)<br>4 pin mini DIN |
| Audio input<br>During audio input<br>Jacks | AV3 (front) L/R<br>2V rms (10kΩ)<br>RCA jacks |
| Audio input/output<br>Jacks | <br>21 pin scart jack |
| Video input/output<br>Input/Output level<br>Jacks | <br>1 Vp-p (75Ω)<br>21 pin scart jack |
| S-Video output<br>Y (luminance) - Input/Output level<br>C (color) - Input/Output level<br>Jack | <br>1 Vp-p (75Ω)<br>300 mVp-p (75Ω)<br>4 pin mini DIN |
| Component Video output<br>Y (luminance) - Output level<br>Pb/Cb, Pr/Cr (color difference) - Output level<br>Jacks | <br>1 Vp-p (75Ω)<br>0.7 Vp-p (75Ω)<br>RCA jacks |
| Audio output<br>During audio output<br>Jacks | <br>2V rms (680Ω)<br>RCA jacks |
| Digital audio output<br>Output level<br>Jack | <br>500 mVp-p (75Ω)<br>Coaxial pin jack |
| VHF/UHF antenna<br>input/output terminal | <br>VHF/UHF set 75Ω |

**NOTES:**

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : 220 - 240 V ~ 50 Hz
3. Ambient temperature : 5 °C ~ 40 °C

# LASER BEAM SAFETY PRECAUTIONS

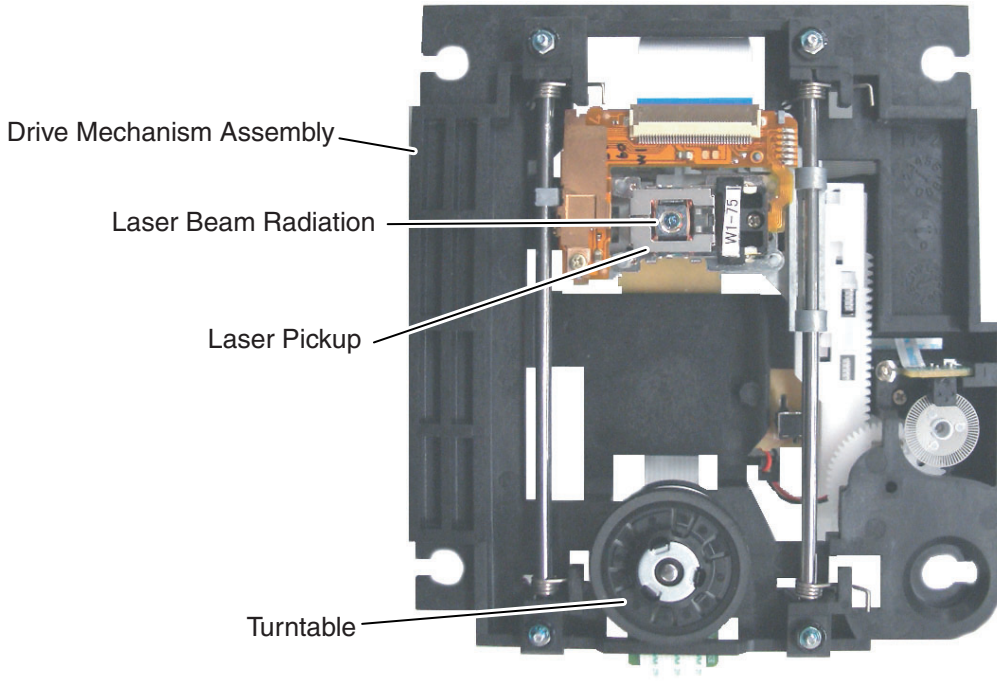
This DVD player uses a pickup that emits a laser beam.

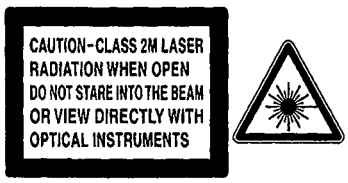


**Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.**

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

**CAUTION:** Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.




**Location: Inside Top of DVD mechanism.**

# IMPORTANT SAFETY PRECAUTIONS

## Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced**.**

## Precautions during Servicing

**A.** Parts identified by the ⚠ symbol are critical for safety. Replace only with part number specified.

**B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

**C.** Use specified internal wiring. Note especially:

1)Wires covered with PVC tubing

2)Double insulated wires

3)High voltage leads

**D.** Use specified insulating materials for hazardous live parts. Note especially:

1)Insulation tape

2)PVC tubing

3)Spacers

4)Insulators for transistors

**E.** When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

**F.** Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

**G.** Check that replaced wires do not contact sharp edges or pointed parts.

**H.** When a power cord has been replaced, check that 5 - 6 kg of force in any direction will not loosen it.

**I.** Also check areas surrounding repaired locations.

**J.** Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

**K.** When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

# Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

## 1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

**Table 1 : Ratings for selected area**

| AC Line Voltage | Clearance Distance (d), (d') |
|---|---|
| 220 to 240 V | ≥ 3 mm(d)<br>≥ 6 mm(d') |

**Note:** This table is unofficial and for reference only. Be sure to confirm the precise values.

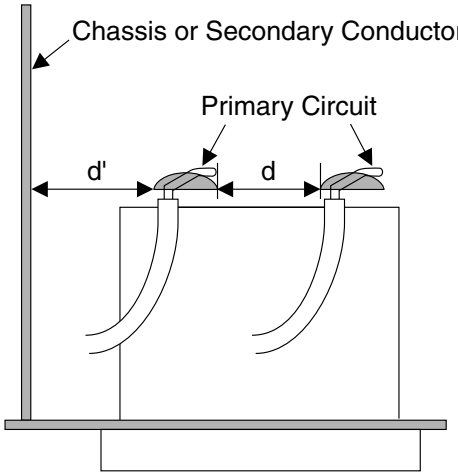



**Fig. 1**

## 2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

**Measuring Method (Power ON) :**

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.

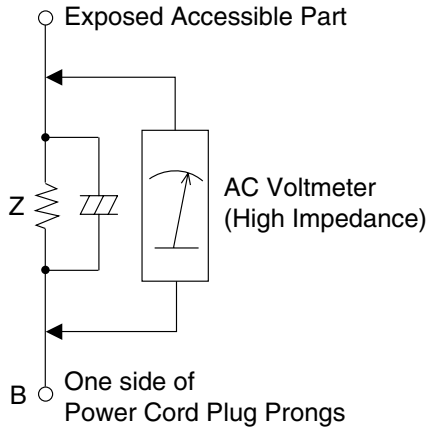



**Fig. 2**

**Table 2: Leakage current ratings for selected areas**

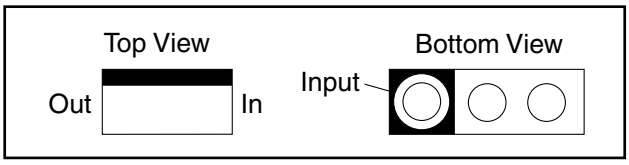
| AC Line Voltage | Load Z | Leakage Current (i) | One side of power cord plug prongs (B) to: |
|---|---|---|---|
| 220 to 240 V | 2kΩ RES. Connected in parallel | i≤0.7mA AC Peak<br>i≤2mA DC | RF or Antenna terminals |
| | 50kΩ RES. Connected in parallel | i≤0.7mA AC Peak<br>i≤2mA DC | A/V Input, Output |

**Note:** This table is unofficial and for reference only. Be sure to confirm the precise values.

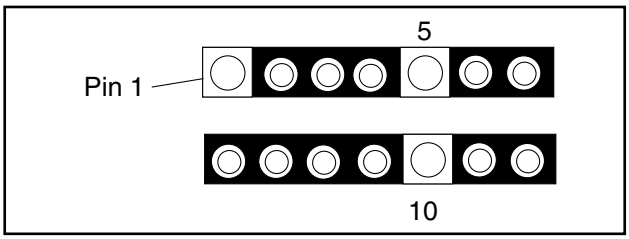
# STANDARD NOTES FOR SERVICING

## Circuit Board Indications

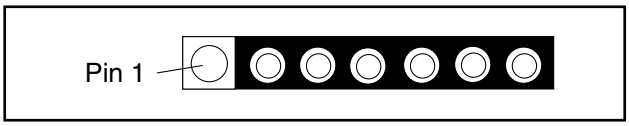
1. The output pin of the 3 pin Regulator ICs is indicated as shown.




2. For other ICs, pin 1 and every fifth pin are indicated as shown.

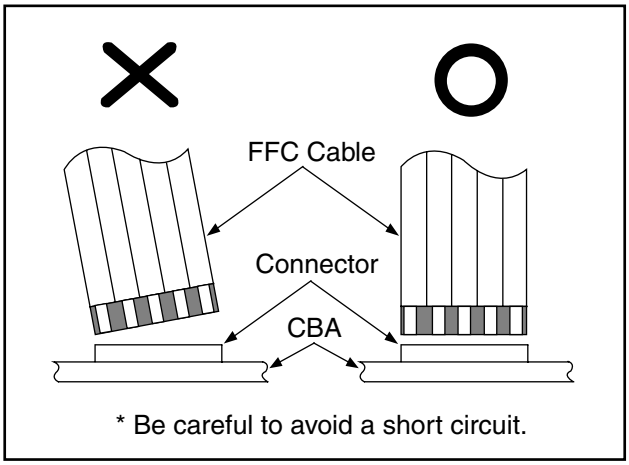



3. The 1st pin of every male connector is indicated as shown.




## Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.




## Pb (Lead) Free Solder

**When soldering, be sure to use the Pb free solder.**

## How to Remove / Install Flat Pack-IC

### 1. Removal

**With Hot-Air Flat Pack-IC Desoldering Machine:**

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

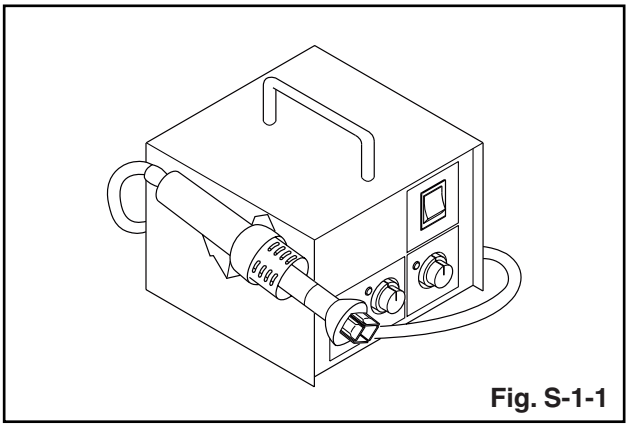


**Fig. S-1-1**

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

**CAUTION:**

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

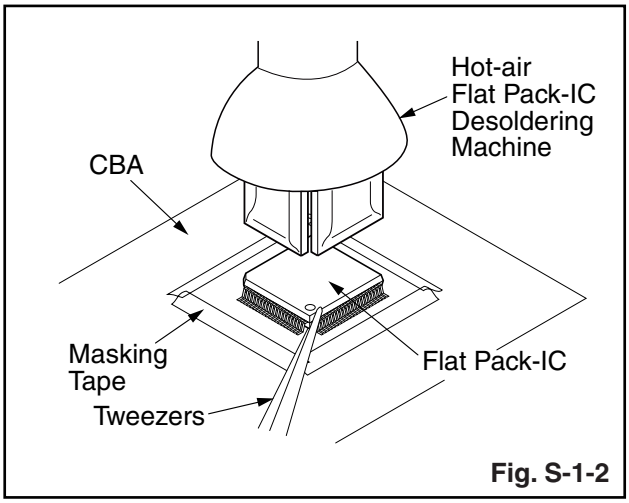



**Fig. S-1-2**

**With Soldering Iron:**

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

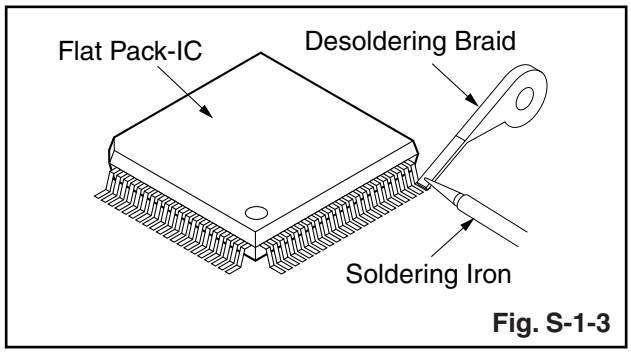



**Fig. S-1-3**

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

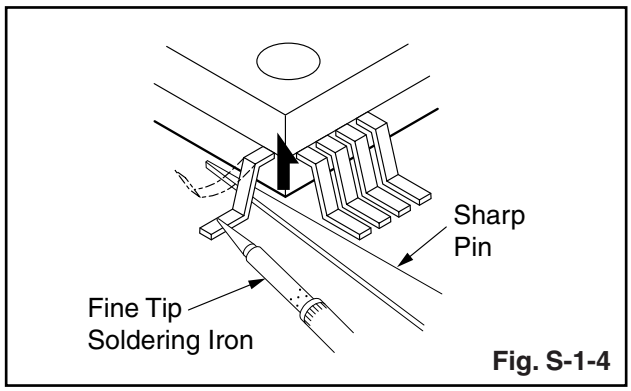



**Fig. S-1-4**

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

**With Iron Wire:**

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

**Note:** When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

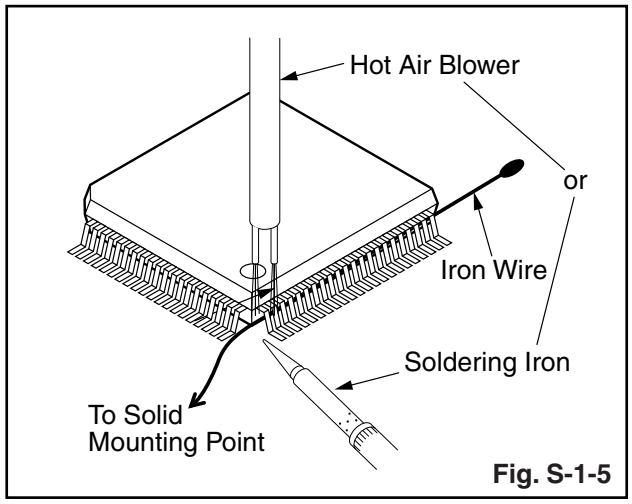



**Fig. S-1-5**

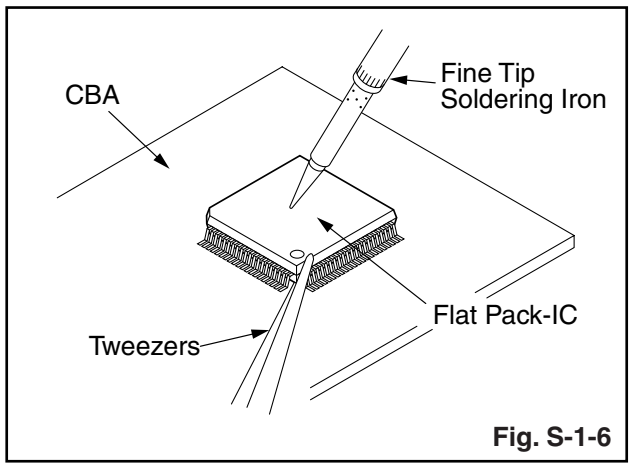



**Fig. S-1-6**

## 2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

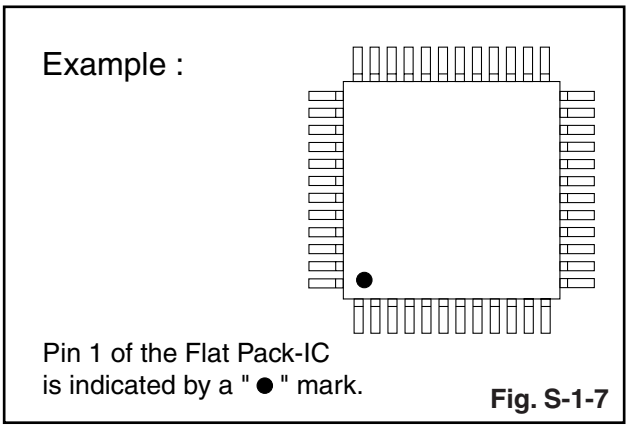



**Fig. S-1-7**

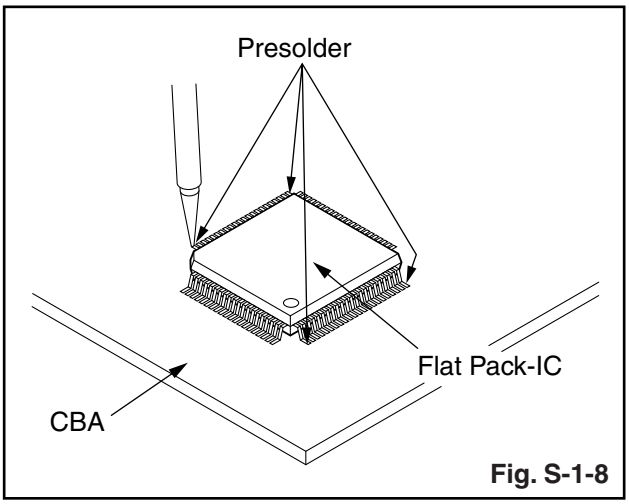



**Fig. S-1-8**

# Instructions for Handling Semi-conductors

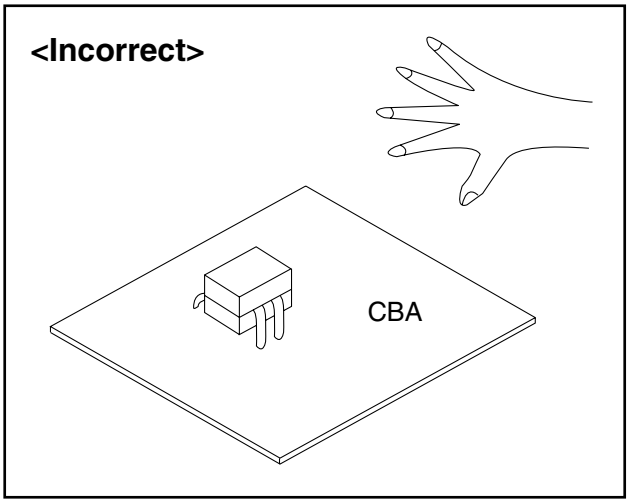
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

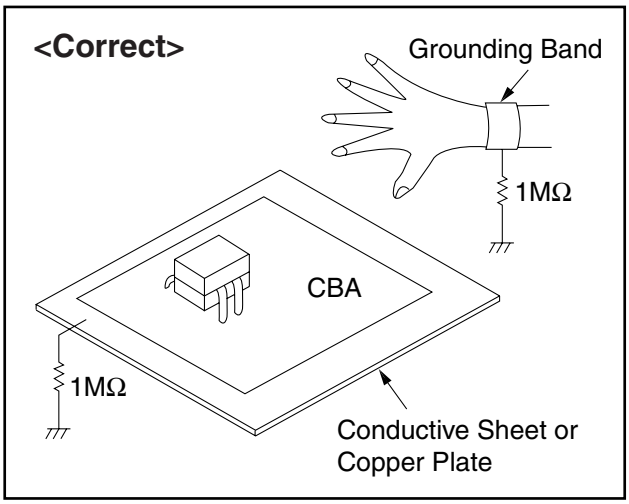
## 1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

## 2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.



# HANDLING PRECAUTIONS FOR HDD

## CAUTION:

### 1. SHOCK

a. Exposing HDD to shock may be the biggest damaging factor. Please note that HDD is easily damaged even if dropped from any height. Be sure to place HDD on a shock-absorbent mat. Also, be careful when transporting HDD.

b. Be careful not to subject HDD to any shock when tightening screws for HDD replacement. **(Tighten screws manually, not with an electric driver.)**

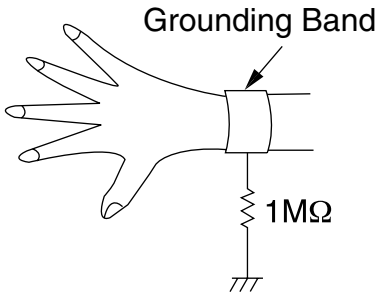
### 2. MOISTURE

a. Moisture may also be a damaging factor. HDD is semiclosed style. Sudden changes in ambient temperature may cause moisture to form. Monitor temperature and do not allow moisture to form on the media surface. Also, when opening HDD package, do so only after package is at ambient temperature.

b. After replacing HDD, leave it to reach room temperature (about 2 hours) for preventing dew internal condensation, and then work necessary task such as operation check.

### 3. STATIC ELECTRICITY

a. After removing HDD or taking replacement HDD out of the protective bag (the replacement HDD is packed in a protective bag), place HDD on a conductive surface. A grounding band should be worn when handling.




Both the conductive surface and grounding band should be grounded.

b. Make sure that HDD is placed on main unit completely and then let go of it, when assembling.

c. Do not put HDD on a packing bag. (for preventing electrostatic damage)

### 4. OTHERS

a. Be careful so as not to do the followings. Otherwise, HDD might be damaged.

- **DO NOT** disassemble HDD.
- When handling HDD, be sure to hold both sides securely.

b. HDD should be stored, packed in the protective bag, in suitable surroundings (i.e., no extreme changes in temperature to avoid condensation).

c. When transporting HDD, be sure to use the exclusive packing case (the replacement HDD carton).

d. Do not stack HDDs.

e. Do not place vertically because HDD is unstable and easy to fall.

# PREPARATION FOR SERVICING

## How to Enter the Service Mode

About Optical Sensors

**Caution:**

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

**What to do for preparation**

Insert a tape into the Deck Mechanism Assembly and press [VCR PLAY] button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect J78 to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

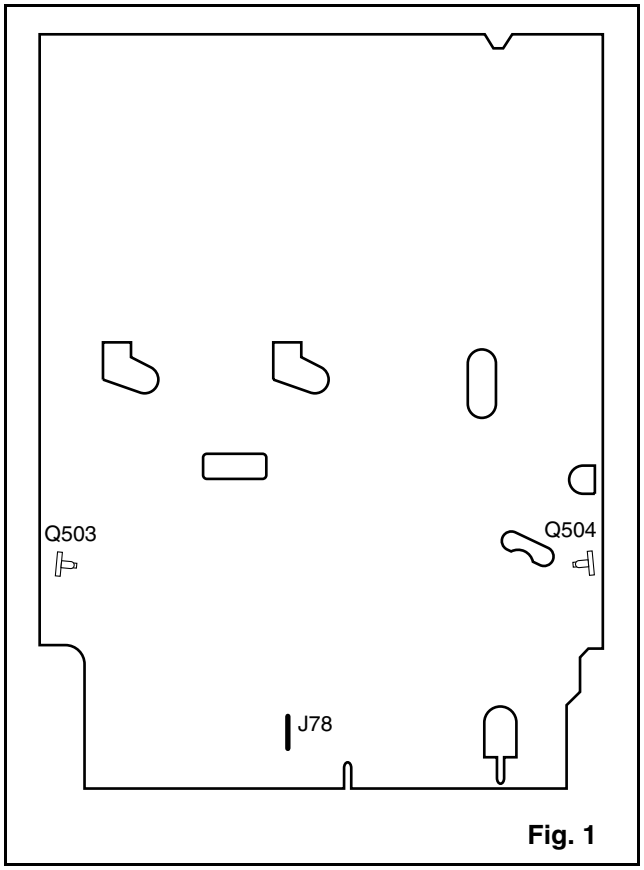


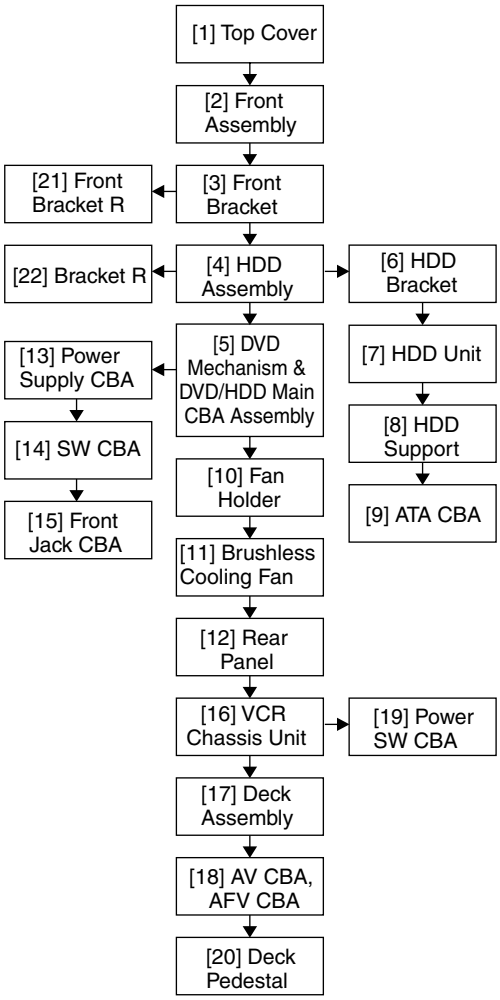

**Fig. 1**

**Note:** Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

# CABINET DISASSEMBLY INSTRUCTIONS

## 1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.




## 2. Disassembly Method

| ID/ LOC. No. | PART | REMOVAL | | |
|---|---|---|---|---|
| | | Fig. No. | REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER | Note |
| [1] | Top Cover | D1 | 7(S-1) | --- |
| [2] | Front Assembly | D2 | (S-2), *5(L-1), *3(L-2) | 1 |
| [3] | Front Bracket | D2 | 2(S-3A), 3(S-3B), Front Support | --- |
| [4] | HDD Assembly | D3 | 2(S-4), *CN901, *CN1003 | --- |
| [5] | DVD Mechanism & DVD/HDD Main CBA Assembly | D3 | 2(S-5), 2(S-6), *CN1001, *CN1502, Dust Cover | 2 |
| [6] | HDD Bracket | D4 | 4(S-7A), (S-7B), Earth Plate | --- |
| [7] | HDD Unit | D4 | 4(S-8), HDD Rubber | 2 |
| [8] | HDD Support | D4 | Insulation Sheet | --- |
| [9] | ATA CBA | D4 | *CN3001, *CN3002 | --- |
| [10] | Fan Holder | D5 | 3(S-9A), 2(S-9B), *CN1002 | --- |
| [11] | Brushless Cooling Fan | D5 | ---------- | --- |
| [12] | Rear Panel | D5 | 4(S-10A), 2(S-10B), 2(S-11) | --- |
| [13] | Power Supply CBA | D6 | *CL1001, 4(S-12) | --- |
| [14] | SW CBA | D6 | (S-13), Desolder | --- |
| [15] | Front Jack CBA | D6 | *CN3001, 2(S-14) | --- |
| [16] | VCR Chassis Unit | D7 | 5(S-15), 4(S-16), (S-17) | --- |
| [17] | Deck Assembly | D8 | (S-18), (S-19) Desolder | 3<br>4 |
| [18] | AV CBA, AFV CBA | D8 | ---------- | --- |
| [19] | Power SW CBA | D8 | Desolder | --- |
| [20] | Deck Pedestal | D9 | 8(S-20) | --- |
| [21] | Front Bracket R | D9 | (S-21) | --- |
| [22] | Bracket R | D9 | 2(S-22) | --- |
| ↓ (1) | ↓ (2) | ↓ (3) | ↓ (4) | ↓ (5) |

**Note:**

(1): Identification (location) No. of parts in the figures

(2): Name of the part

(3): Figure Number for reference

(4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P=Spring, L=Locking Tab, S=Screw, CN=Connector
*=Unhook, Unlock, Release, Unplug, or Desolder
e.g. 6(S-1) = six Screws (S-1),
5(L-1) = five Locking Tabs (L-1)

(5): Refer to “Reference Notes.”

## Reference Notes

1. Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.
   1-1. Remove Screw (S-2).
   1-2. Release five Locking Tabs (L-1).
   1-3. Release three Locking Tabs (L-2) and remove the Front Assembly.
2. Do not replace the DVD Mechanism or the DVD/HDD Main CBA Assembly separately, when replacing the DVD Mechanism & DVD/HDD Main CBA Assembly. Order the new DVD Mechanism & DVD/HDD Main CBA Assembly.
   2-1. Whenever you have replaced the HDD unit, initialize the HDD unit. To initialize the HDD unit, perform the following.To put the DVD/VCR with HDD recorder into the HDD mode, press the [HDD] button on the remote control unit.
   2-2. To put the DVD/VCR with HDD recorder into the self-check mode, after pressing [VARIABLE SKIP] button, press the [3], [6], and [9] buttons on the remote control in that order within three seconds.
   2-3. Press [ENTER] button. The DVD/VCR with HDD recorder is initialized and the power is turned off automatically after two seconds.
3. When reassembling, solder wire jumpers as shown in Fig. D8.
4. Before installing the Deck Assembly, be sure to place the pin of LD-SW on the AV CBA as shown in Fig. D8. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D8.

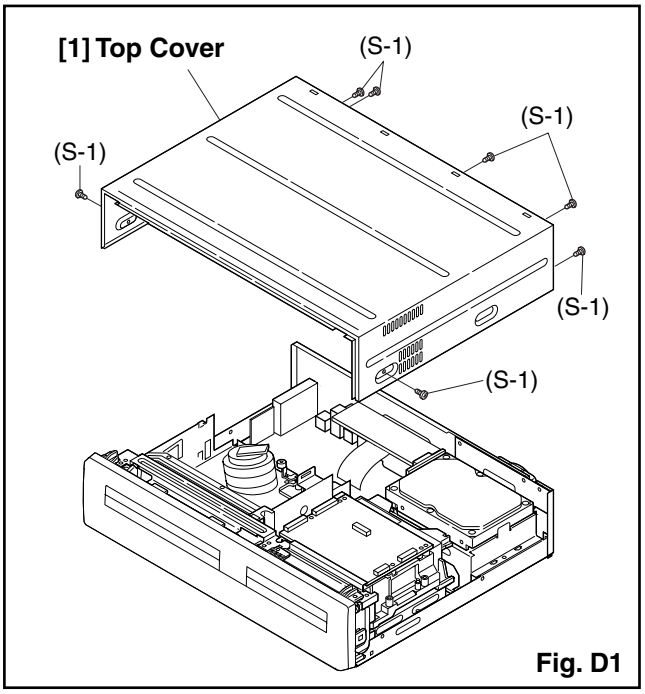


Fig. D1

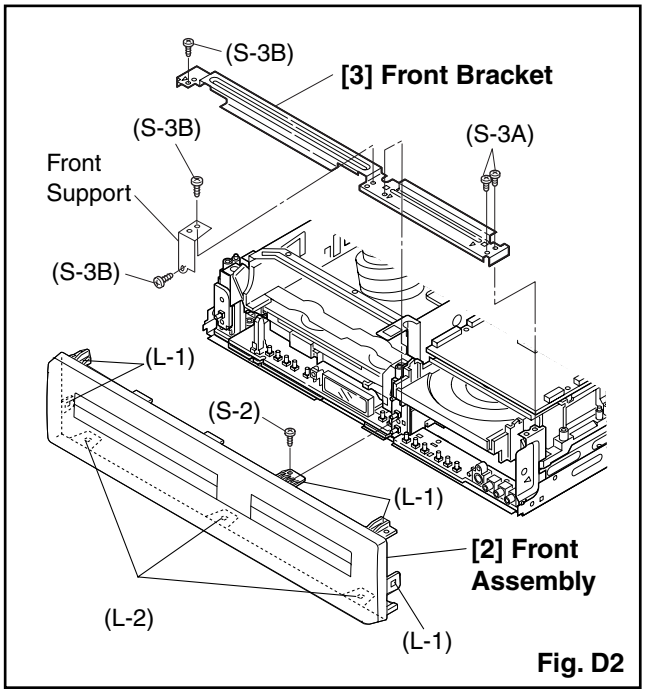


Fig. D2

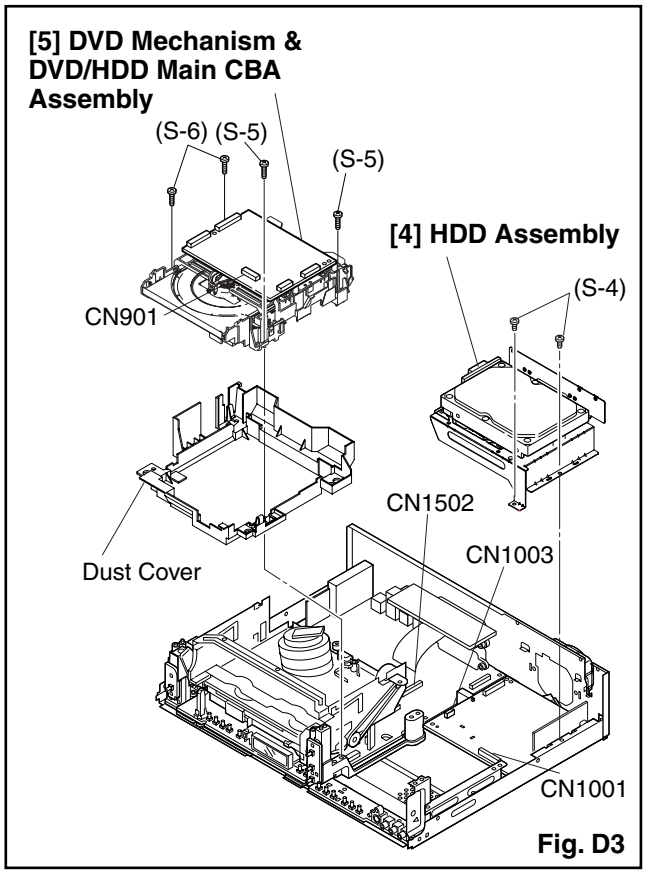


Fig. D3

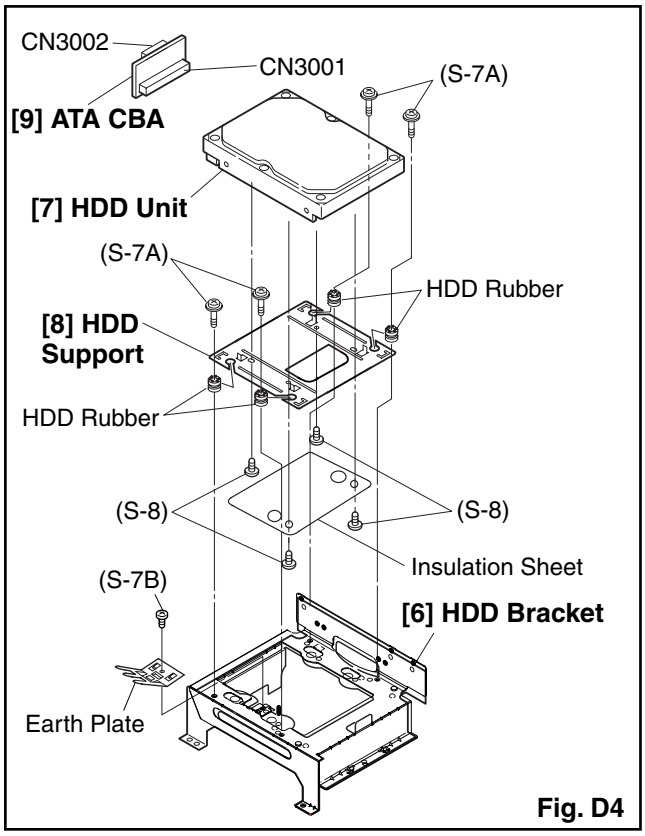



Fig. D4

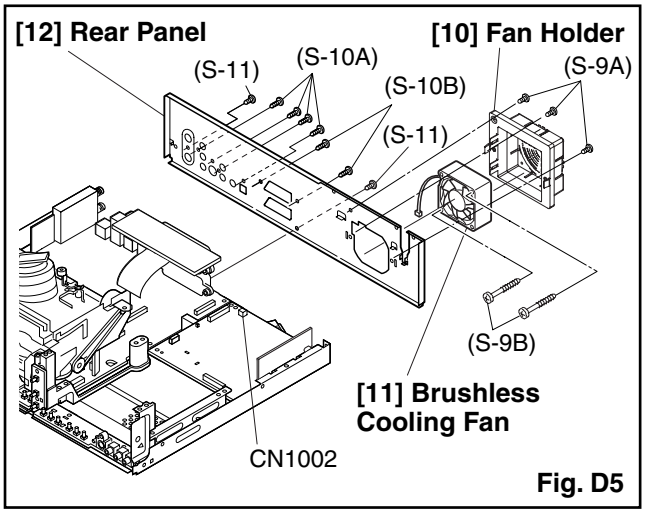



Fig. D5

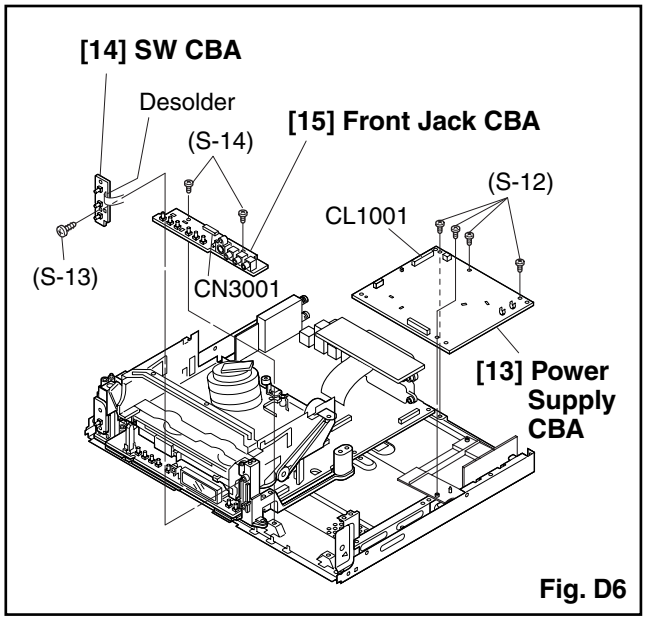



Fig. D6

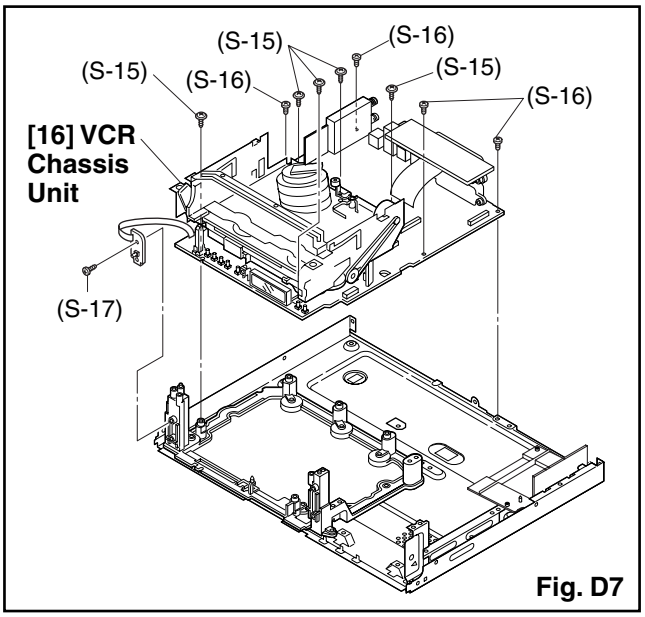
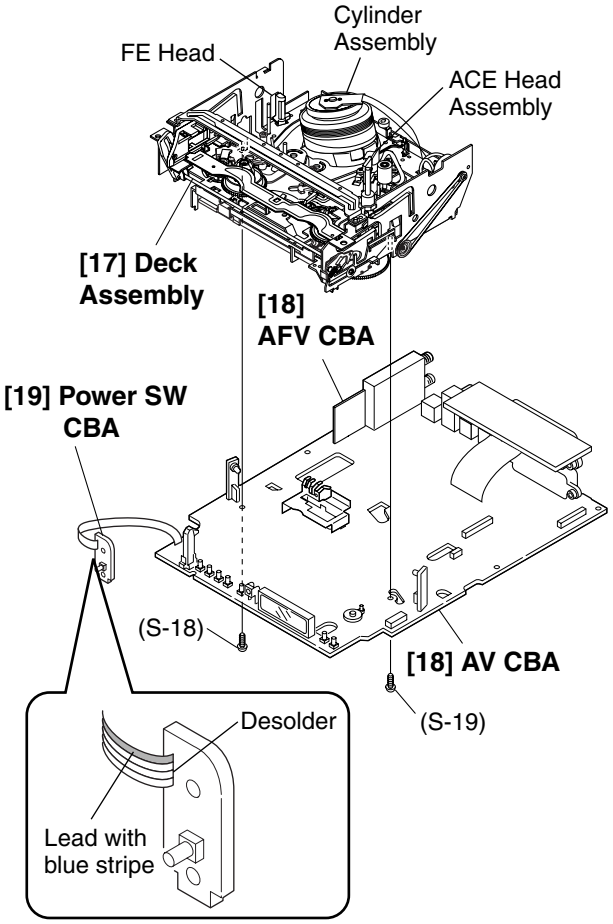
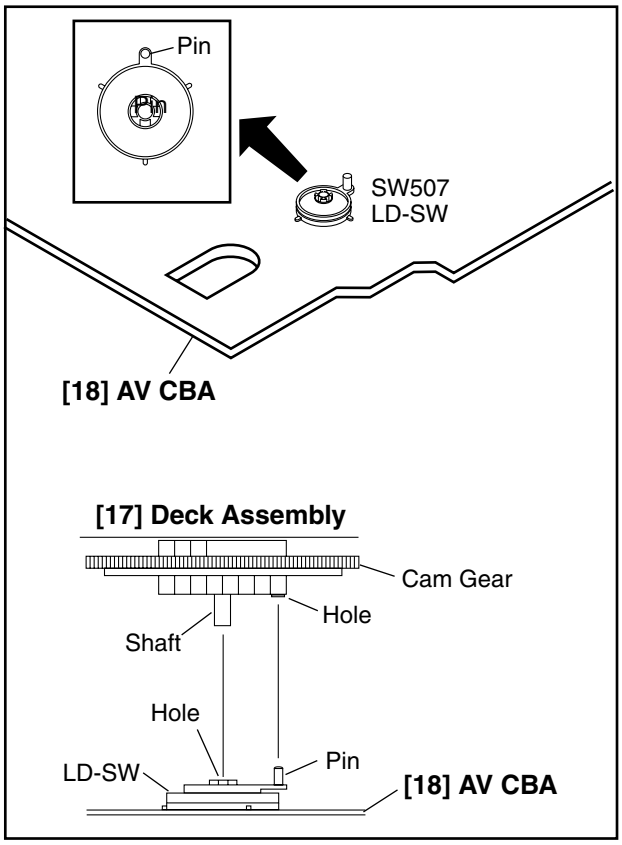
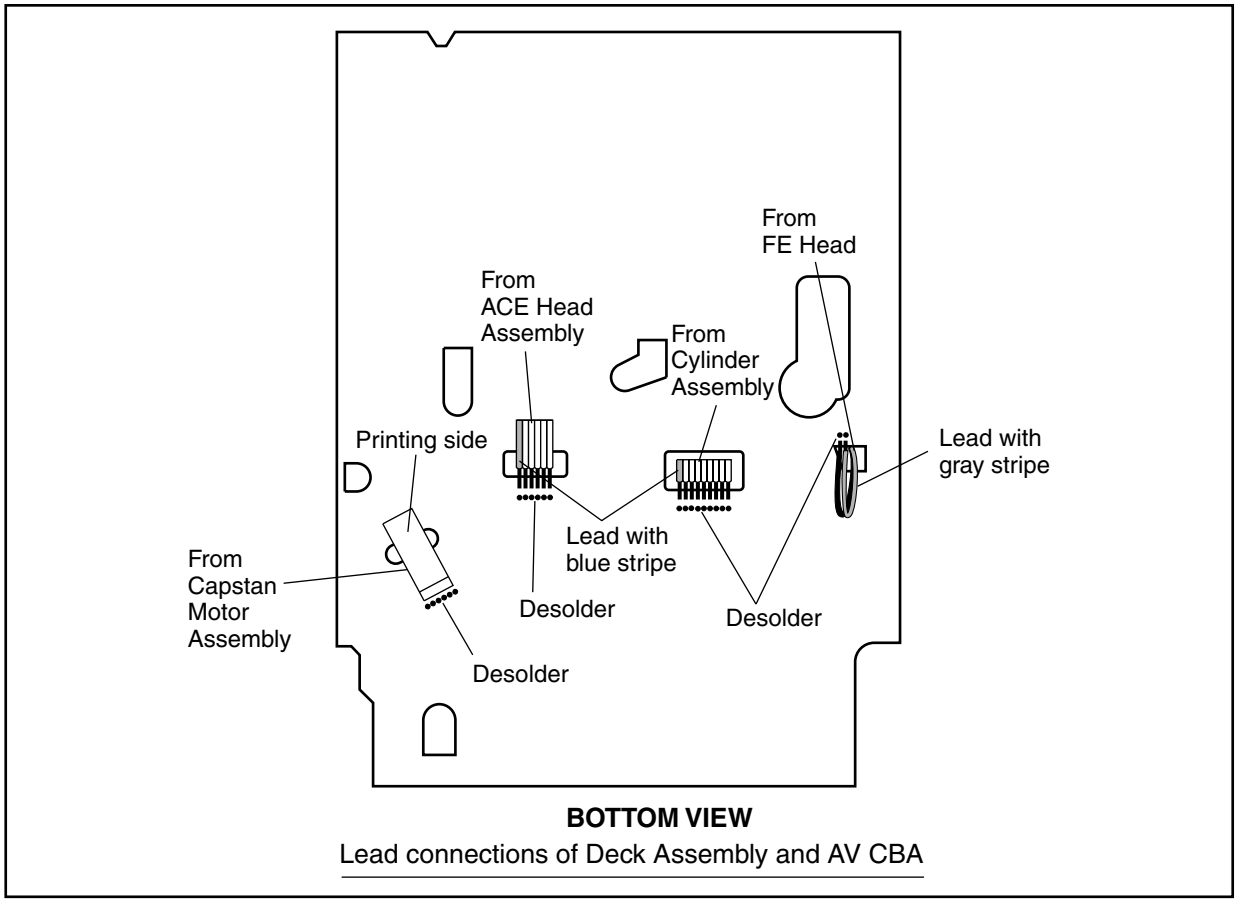



Fig. D7




**BOTTOM VIEW**

Lead connections of Deck Assembly and AV CBA

**Fig. D8**

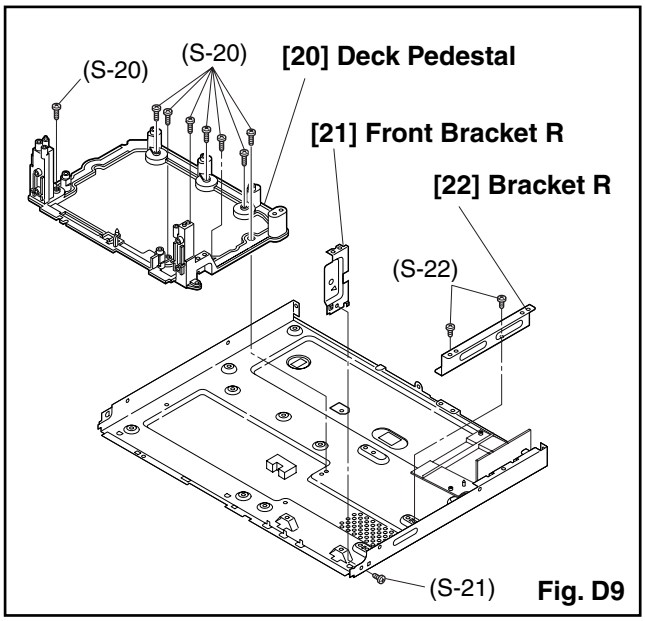
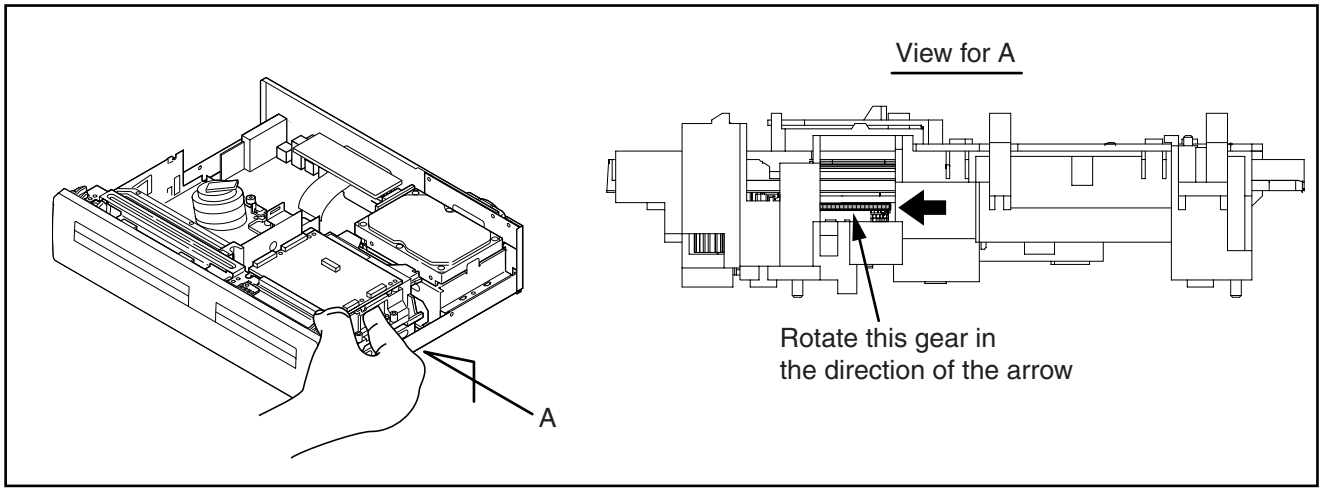


Fig. D9

## 3. How to Eject Manually

**Note:** When rotating the gear, be careful not to damage the gear.

1. Remove the Top Cover.
2. Rotate the gear in the direction of the arrow manually as shown below.



# ELECTRICAL ADJUSTMENT INSTRUCTIONS

**General Note: "CBA" is an abbreviation for "Circuit Board Assembly."**

**NOTE:**

1. Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either [PROG. ▼] or [PROG. ▲] button on the front panel first, then the [VCR PLAY] button on the front panel.

## Test Equipment Required

1. Oscilloscope: Dual-trace with 10:1 probe,
   V-Range: 0.001~50V/Div.,
   F-Range: DC~AC-20MHz
2. Alignment Tape (FL6A)

## Head Switching Position Adjustment

**Purpose:**

To determine the Head Switching position during playback.

**Symptom of Misadjustment:**

May cause Head Switching noise or vertical jitter in the picture.

| Test point | Adj.Point | Mode | Input |
|---|---|---|---|
| J308(JK1-V-OUT)<br>TP504(RF-SW)<br>GND | VR501<br>(Switching Point)<br>(AV CBA) | PLAY<br>(SP) | ----- |
| **Tape** | **Measurement Equipment** | **Spec.** | |
| FL6A | Oscilloscope | 6.5H±1H<br>(416μs±64μs) | |
| **Connections of Measurement Equipment** | | | |

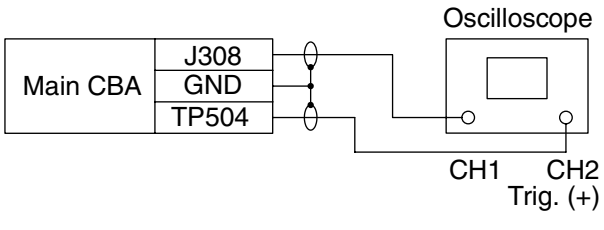
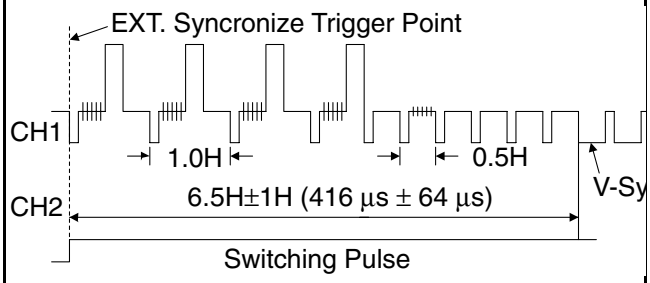



**Figure 1**




**Reference Notes:**

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the 6.5H±1H (416μs±64μs) delayed position from the rising edge of the CH2 head switching pulse waveform.

# HOW TO SELF-CHECK AND INITIALIZE THE DVD/VCR WITH HDD

1. Turn on the DVD/VCR with HDD recorder.
2. To put the DVD/VCR with HDD recorder into the HDD mode, press [HDD] on the remote control unit.
3. To put the DVD/VCR with HDD recorder into the self-check mode, after pressing [VARIABLE SKIP] button, press the [3], [6], and [9] buttons on the remote control in that order within three seconds.
   Fig. a appears on the screen and all LEDs light.

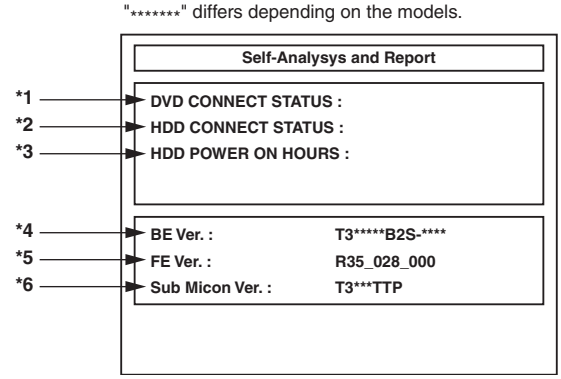



Fig. a: Self-Check Mode Screen

Table 1: Description of Fig. a

| INDICATION | DESCRIPTION |
|---|---|
| DVD CONNECT STATUS (*1) | Connecting Condition of DVD(F/E) |
| HDD CONNECT STATUS (*2) | Connecting Condition of HDD |
| HDD POWER ON HOURS (*3) | Value of HDD power on hours obtained from S.M.A.R.T. command. (If not obtainable, value of HDD power on hours is “0”.)<br>Value in parentheses is the factory setting value. (If no setting, the value is “0”.) |
| BE Ver. (*4) | B/E version |
| FE Ver. (*5) | F/E version |
| Sub Micon Ver. (*6) | Sub micro controller version |

4. Upon the self-check completion, Fig. b appears on the screen.

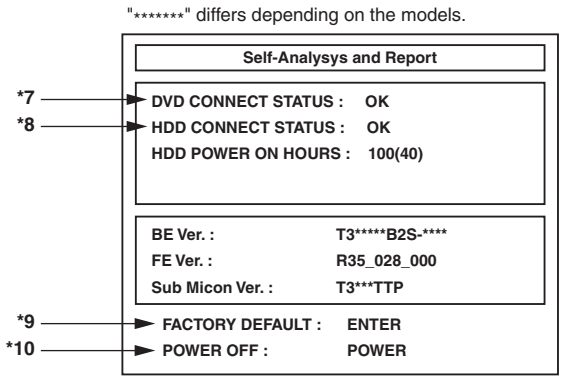



Fig. b: Screen of Finishing Self-Check Mode

Table 2: Indication of DVD self-check (*7)

| INDICATION | DESCRIPTION |
|---|---|
| OK | Connection of DVD is normal. |
| NOT FOUND | DVD drive cannot be found. |
| CABLE ERROR | FFC cable (connecting to CN401) between the DVD drive and the DVD/HDD Main CBA is not connected correctly. |

Table 3: Indication of HDD self-check (*8)

| INDICATION | DESCRIPTION |
|---|---|
| OK | Connection of HDD is normal. |
| NOT FOUND | HDD drive cannot be found. |
| CABLE ERROR | FFC cable between the ATA CBA and the HDD drive is not connected correctly. |

Table 4: Available button in self-check mode

| BUTTON | DESCRIPTION |
|---|---|
| ENTER (*9) | Initialize (only when the self-check mode is complete) |
| STANDBY-ON (*10) | Turn the power off (when the self-check mode is complete) |
| OTHER | Not available |

5. When the self-check mode is complete, press [STANDBY-ON] button to turn the power off.
   When initializing the DVD/VCR with HDD recorder, press [ENTER] button. Fig. c appears on the screen. After two seconds, the power is turned off automatically.

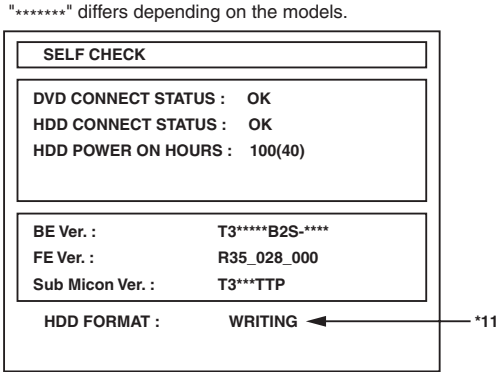

"*******" differs depending on the models.
SELF CHECK
DVD CONNECT STATUS : OK
HDD CONNECT STATUS : OK
HDD POWER ON HOURS : 100(40)
BE Ver. : T3*****B2S-****
FE Ver. : R35_028_000
Sub Micon Ver. : T3***TTP
HDD FORMAT : WRITING
*11

Fig. c: Initialize Mode Screen

Table 5: Description of *11 in Fig. c

| INDICATION | DESCRIPTION |
|---|---|
| ENTER | Initialization preparation is complete. |
| WRITING | Initializing |
| OK | Initializing is finished normally. |
| NG | Initializing is not finished normally. |

**NOTE:** When initializing, “Current Clock”, “Setup Changing Item”, “Channel Setup”, “Area Setup”, “Program” and “HDD Contents” are initialized.

# FIRMWARE RENEWAL MODE

## 1. Update Contents

| | Item | Status |
|---|---|---|
| 1 | B/E | Update B/E FIRMWARE |
| 2 | F/E | Update F/E FIRMWARE |

## 2. Update

**Note:** Update does not interrupt power during firmware update process!
The unit will power off automatically when the update is finished.

1. Turn the power on and remove the disc in the tray.
2. To switch the HDD & DVD into the HDD mode, press [HDD] on the remote control unit.
3. To put the HDD & DVD into version up mode, press [VARIABLE SKIP] and [6], [5], [4] buttons on the remote control unit in that order within 3 seconds. The tray will open automatically.
Fig. a appears on the TV screen and Fig. b appears on the VFD.

*FIRMWARE version will differ depending on the model. Fig. a is an example.

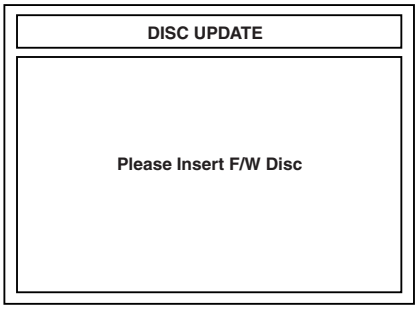



Fig. a: Update Mode TV Screen

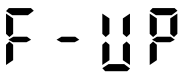



Fig. b: VFD Display in Update Mode

4. Load the update disc.
The TV screen will display Fig. c.
   - If the update disc contains only a single file, the update will initiate automatically when the disc is inserted.

*FIRMWARE version will differ depending on the model. Fig. c is an example.

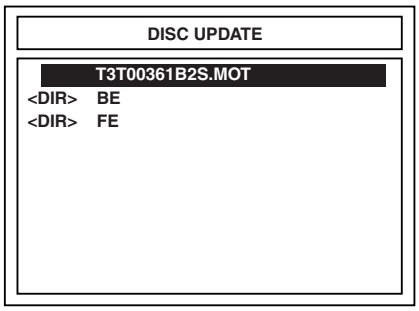



Fig. c: Update Disc TV Screen

Effective FIRMWARE update files will have the file extensions shown below.

| File extension | Status |
|---|---|
| MOT | F/E FIRMWARE file |

5. Select the desired FIRMWARE to be updated with the arrow button and press the [ENTER] or [PLAY] button.
The tray will open automatically; close the tray by pressing [OPEN/CLOSE] button or by hand.
6. Fig. d appears on the TV screen and Fig. e appears on the VFD, and the update will start.

*FIRMWARE version will differ depending on the model. Fig. d is an example.

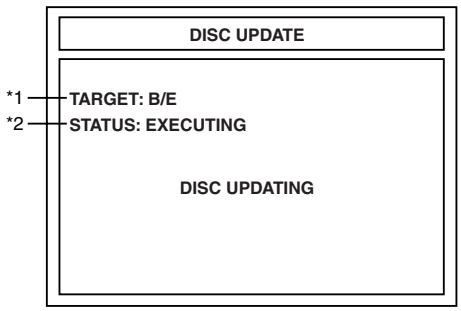



Fig. d: TV Display during update

The status displayed in *1 is as shown below.

| Display | Status |
|---|---|
| B/E | FIRMWARE B/E |
| F/E | FIRMWARE F/E |
| UNKNOWN | Not FIRMWARE B/E or F/E |

The status displayed in *2 is as shown below.

| Display | Status |
|---|---|
| EXECUTING | Loading F/W from Update Disc or writing to Flash memory |
| ERROR | Error during Flash memory writing |
| FILE ERROR | Check SAM error in F/W file |
| READ ERROR | Error during F/W file reading |

Fig. e: VFD Display during update

When the TV screen displays "Firmware Updating... XX% Complete," the VFD will indicate "XX"%.

7. When update is complete, the unit will shut off automatically.
8. If an error occurred during updating, the TV screen will display Fig. f.

*FIRMWARE version will differ depending on the model. Fig. f is an example.

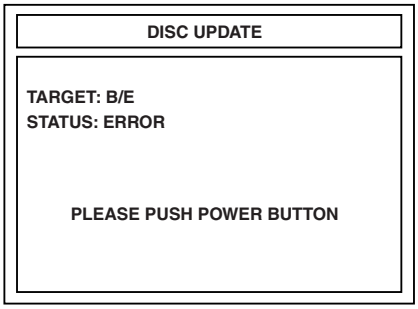



Fig. f: TV Display when completing update with error

Fig. h: VFD Display when completing update with error

In this case, all button operations will be invalid except [STANDBY-ON] button.

9. Press [STANDBY-ON] button to turn the power off and press [STANDBY-ON] button again to turn the power back on and finish updating.

# 3. How to Verify the Firmware Version

1. Turn the power on and remove the disc in the tray.
2. To switch the HDD & DVD into HDD mode, press [HDD] on the remote control unit.
3. To put the HDD & DVD into version display mode, press [VARIABLE SKIP] and [1], [2], [3] buttons on the remote control unit in that order within 3 seconds. Fig. i appears on the TV screen.

******* part will differ depending on the model. Fig. i is an example.

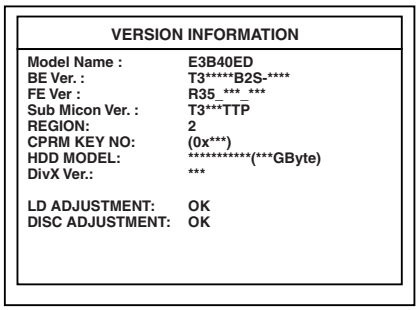



Fig. i: Firmware version display

| Display | Contents |
|---|---|
| MODEL NAME | Product number |
| BE Ver. | Firmware B/E version |
| FE Ver. | Application F/E version |
| Sub Micon Ver. | Sub Microcontroller firmware version |
| REGION | Region code of playable DVD disc |
| CPRM KEY NO. | CPRM key number |
| HDD MODEL | HDD serial number and capacity (GByte) |
| DivX Ver. | Version number of DivX file systems |
| LD ADJUSTMENT | LD adjustment progress (done: OK/ not done: --) |
| DISC ADJUSTMENT | Factory adjustment progress (done: OK/not done: --) |

Effective buttons in this mode are the following...

| Buttons | Operations |
|---|---|
| POWER | Power off to release from this mode. |
| SETUP | Version display disappears and SETUP screen appears. |
| TOP MENU | Version display disappears and TOP MENU screen appears. |
| TIMER PROG. | Version display disappears and TIMER PROGRAMMING screen appears. |
| DUBBING MENU | Version display disappears and DUBBING screen appears. |
| Others | While displaying version and normal operation. |

# FUNCTION INDICATOR SYMBOLS

## < VCR Section >

**Note:**

When the power comes on again after that by pressing [STANDBY-ON] button, an error message is displayed on the TV screen as follows.

When reel or capstan mechanism is not functioning correctly

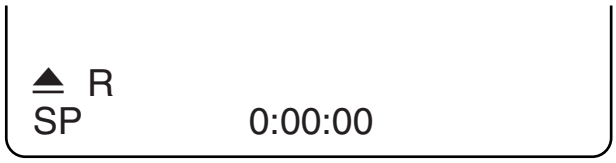



**Fig. 1**

When tape loading mechanism is not functioning correctly

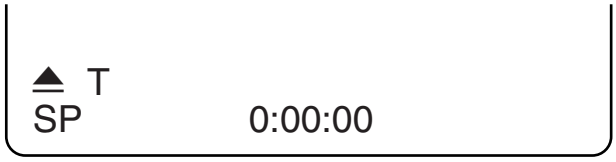



**Fig. 2**

When cassette loading mechanism is not functioning correctly

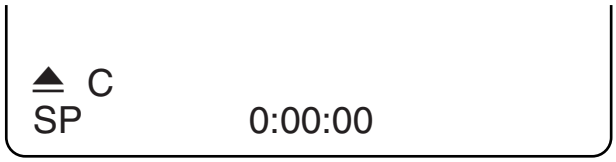



**Fig. 3**

When the drum is not working properly

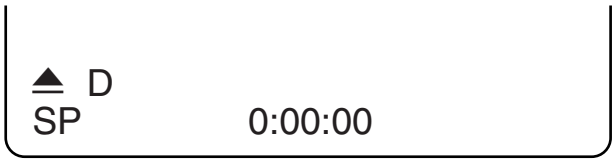



**Fig. 4**

P-ON+5V Power safety detection

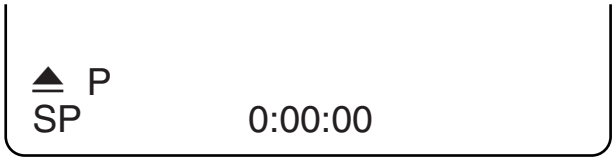
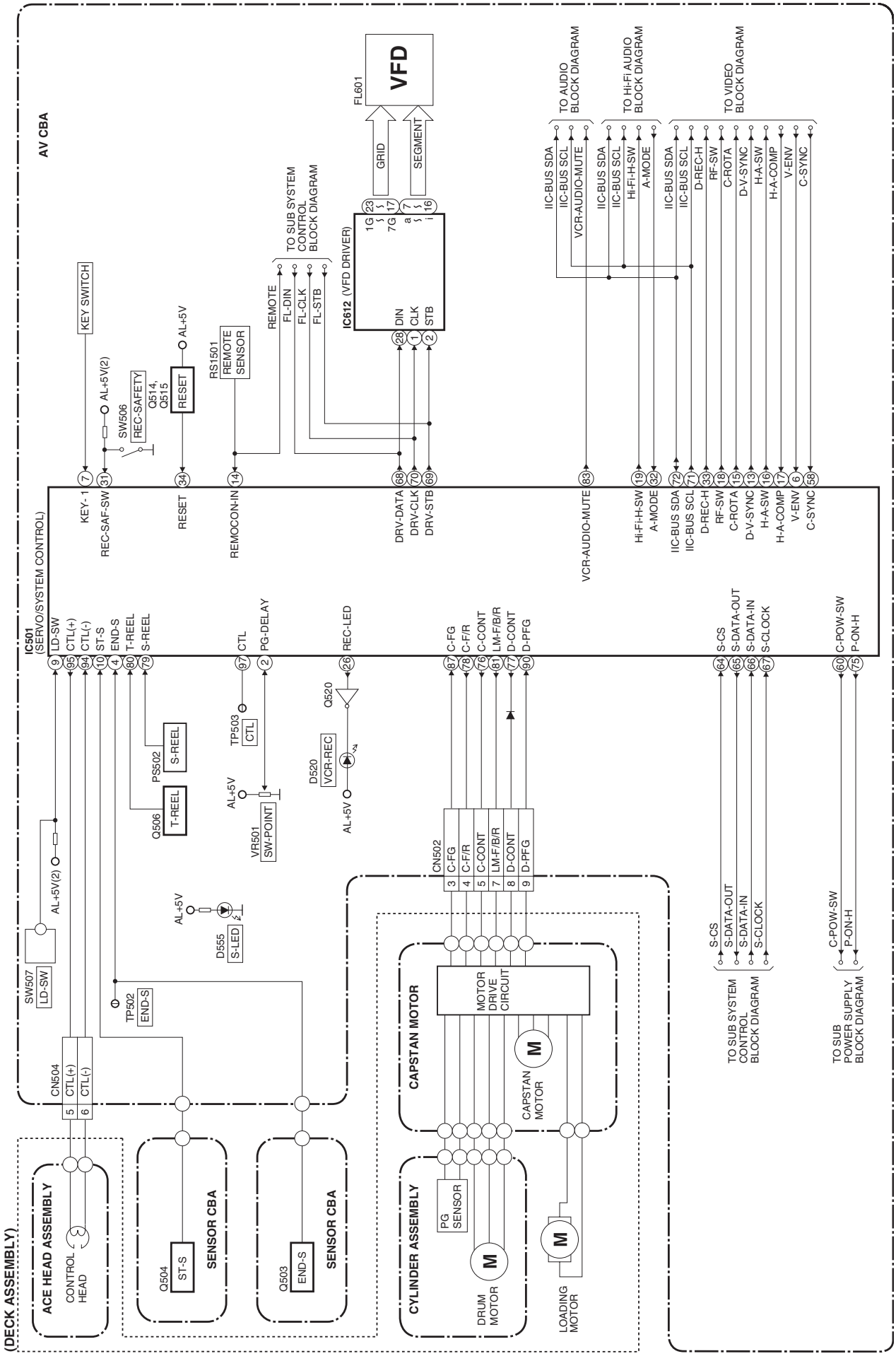


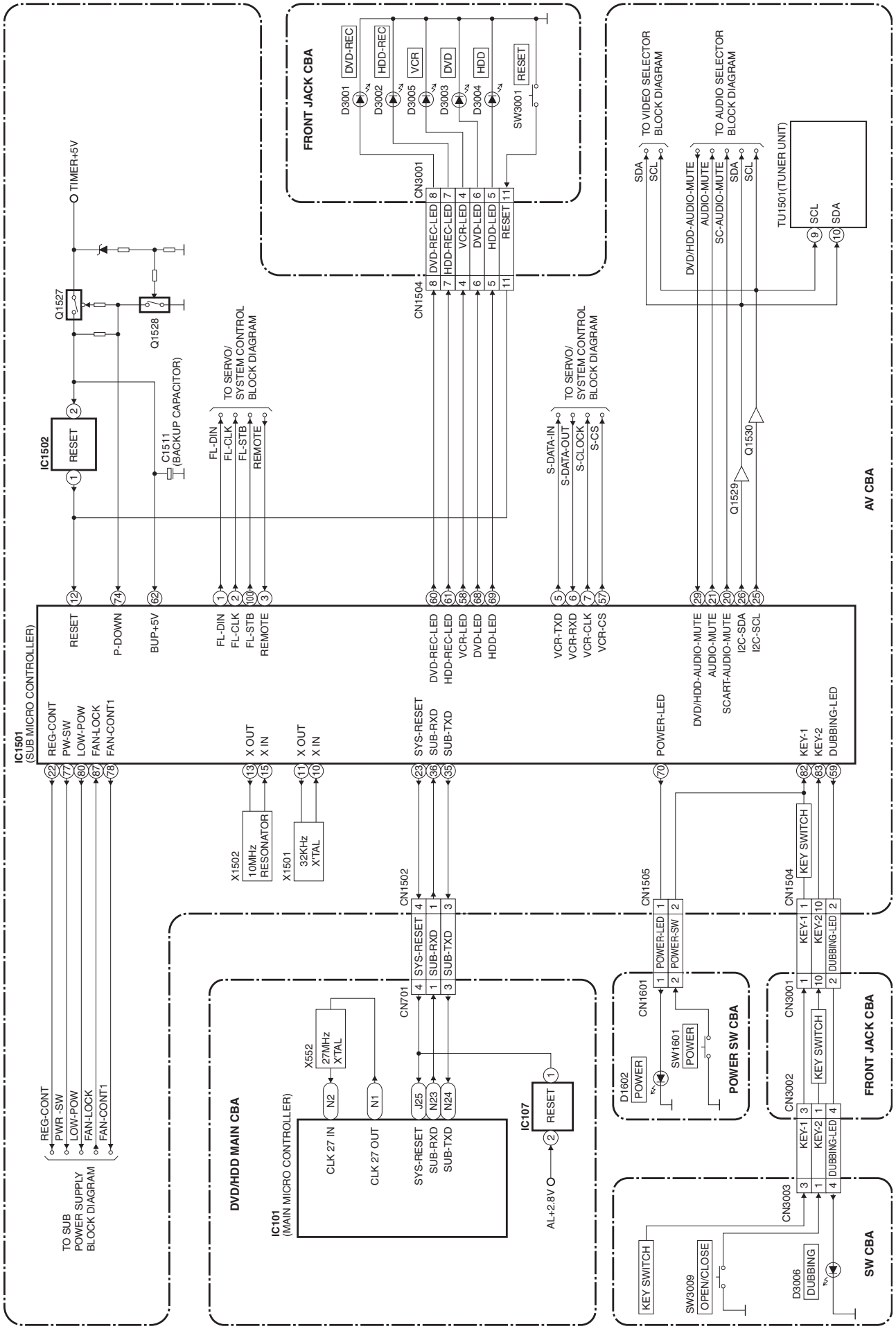

**Fig. 5**

# BLOCK DIAGRAMS

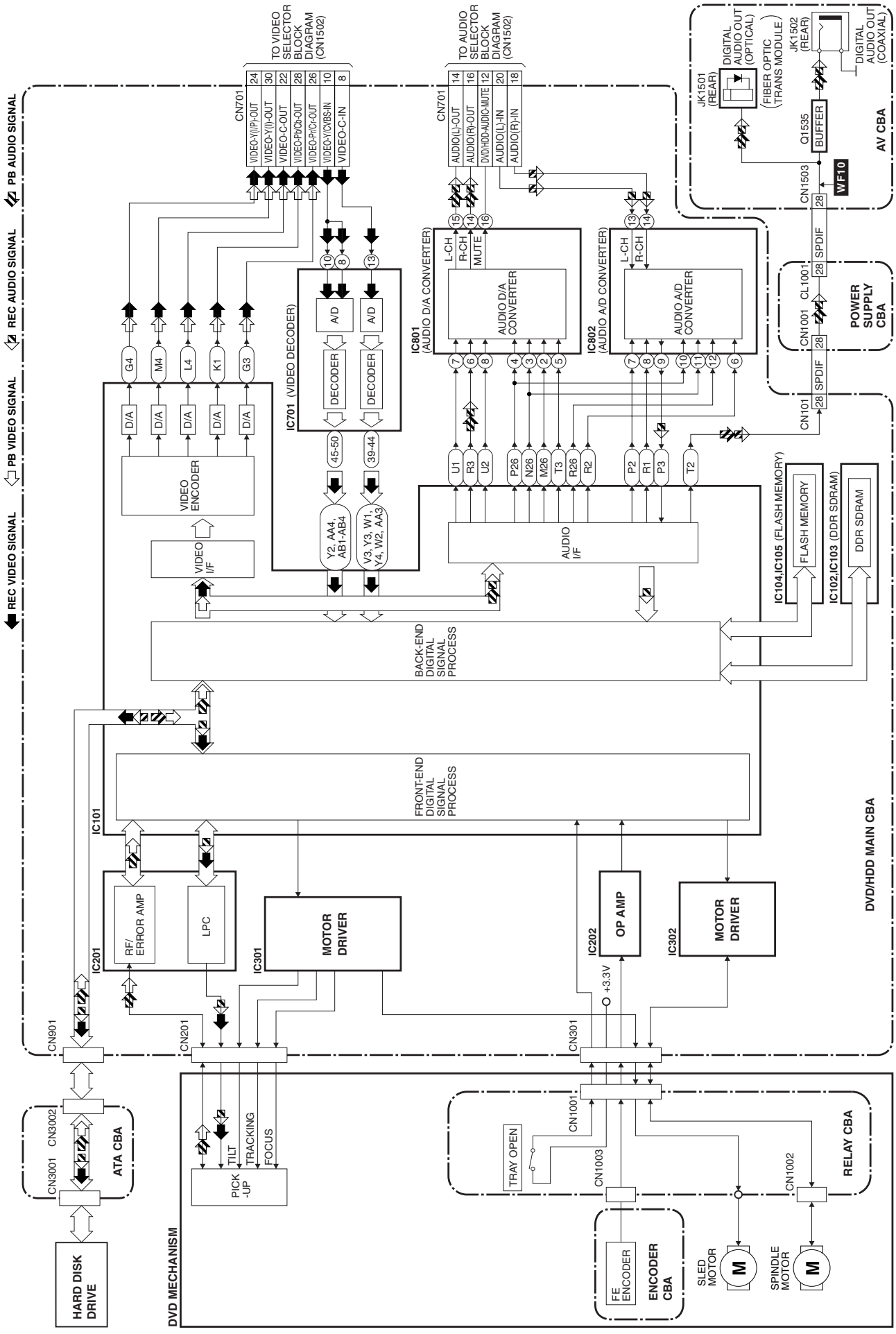
## Servo/System Control Block Diagram



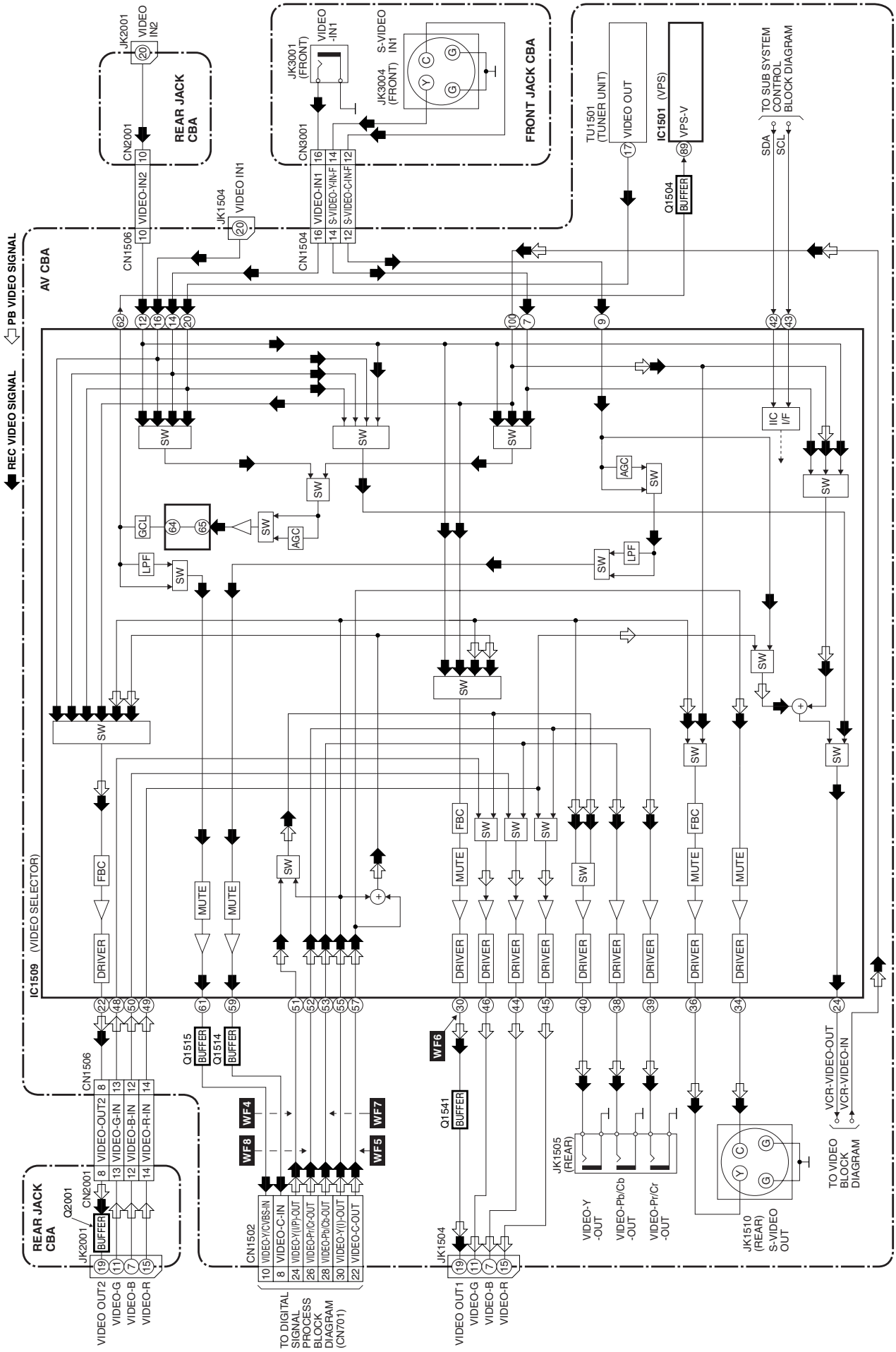
# Sub System Control Block Diagram



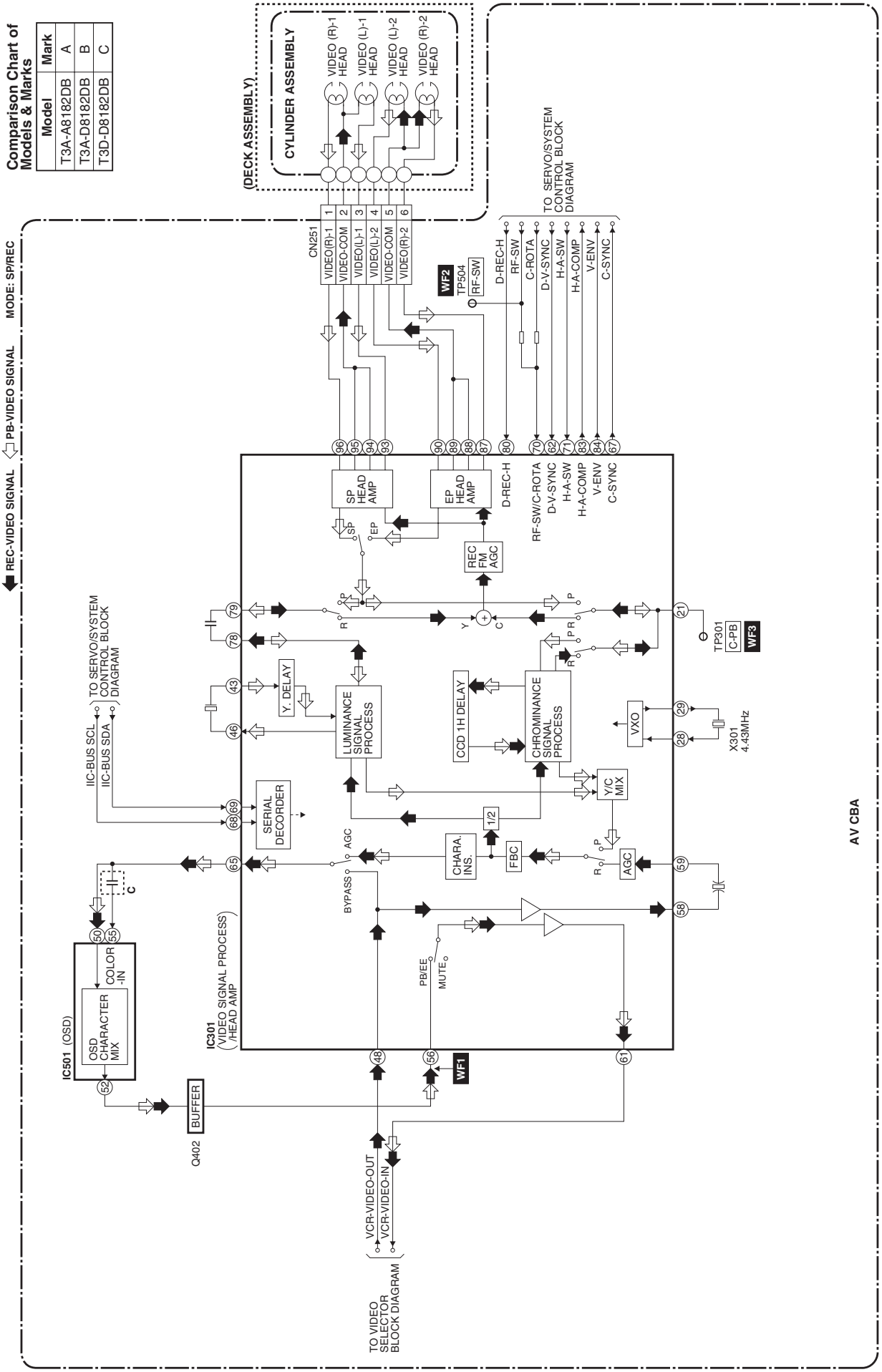
# Digital Signal Process Block Diagram



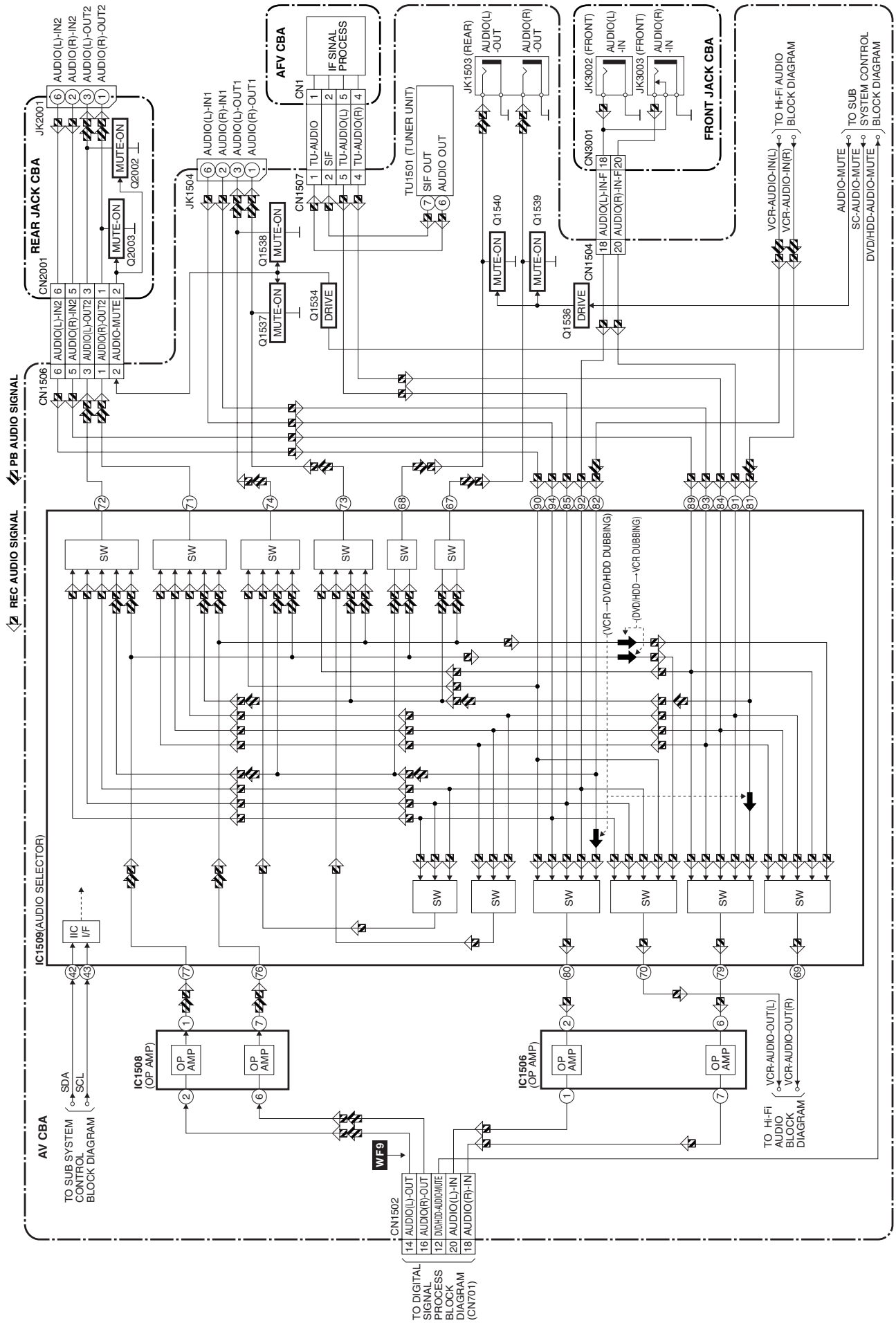
# Video Selector Block Diagram



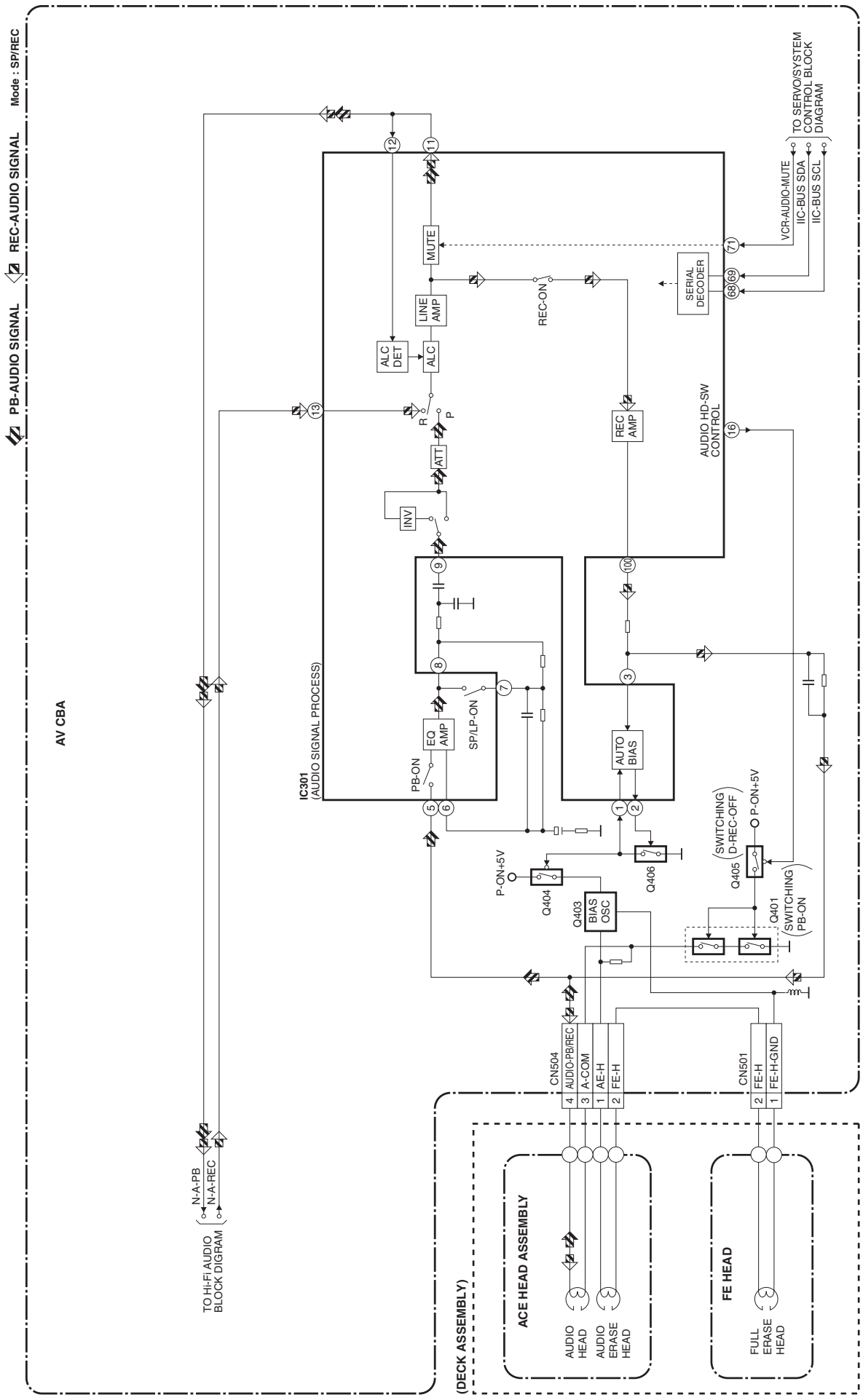
# Video Block Diagram



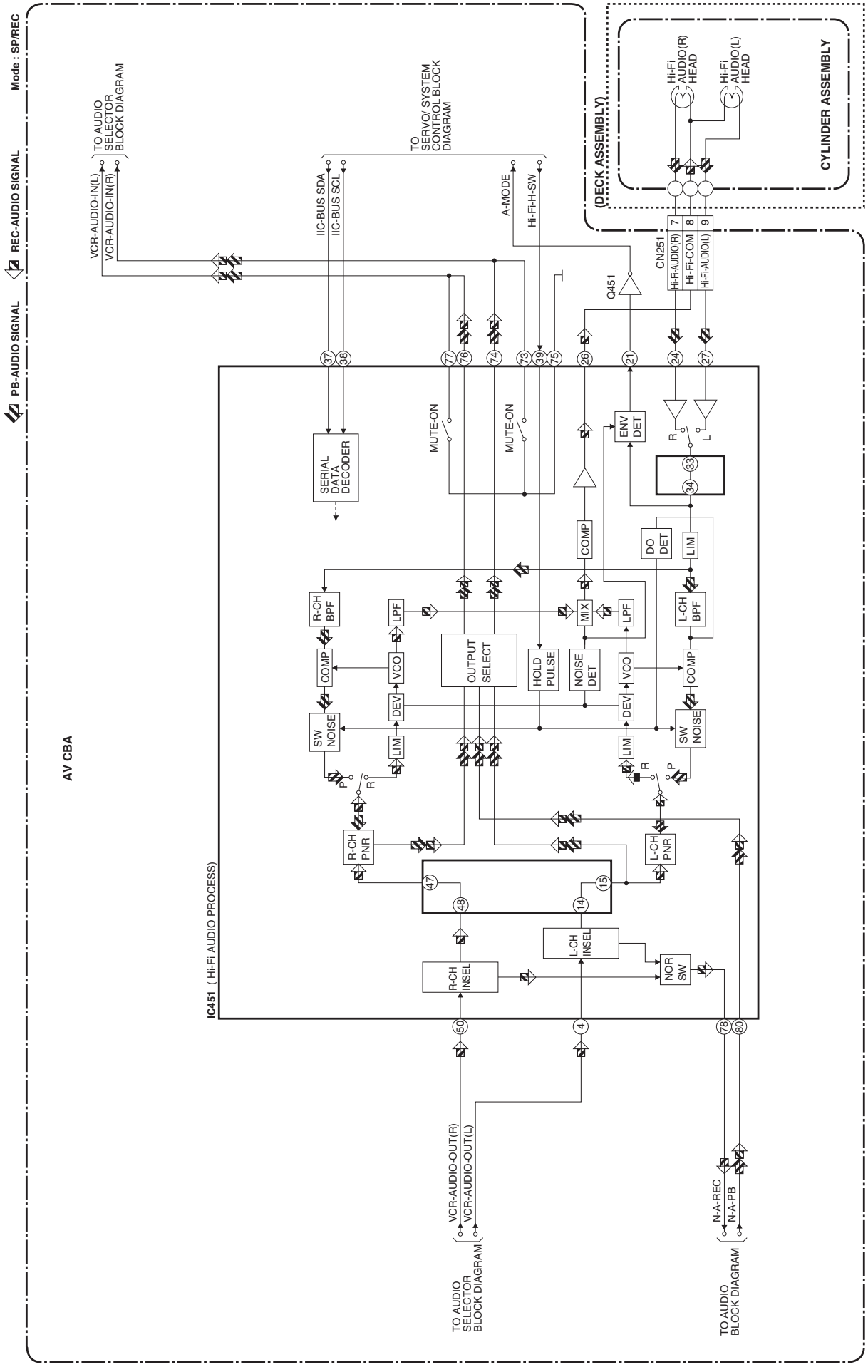
# Audio Selector Block Diagram



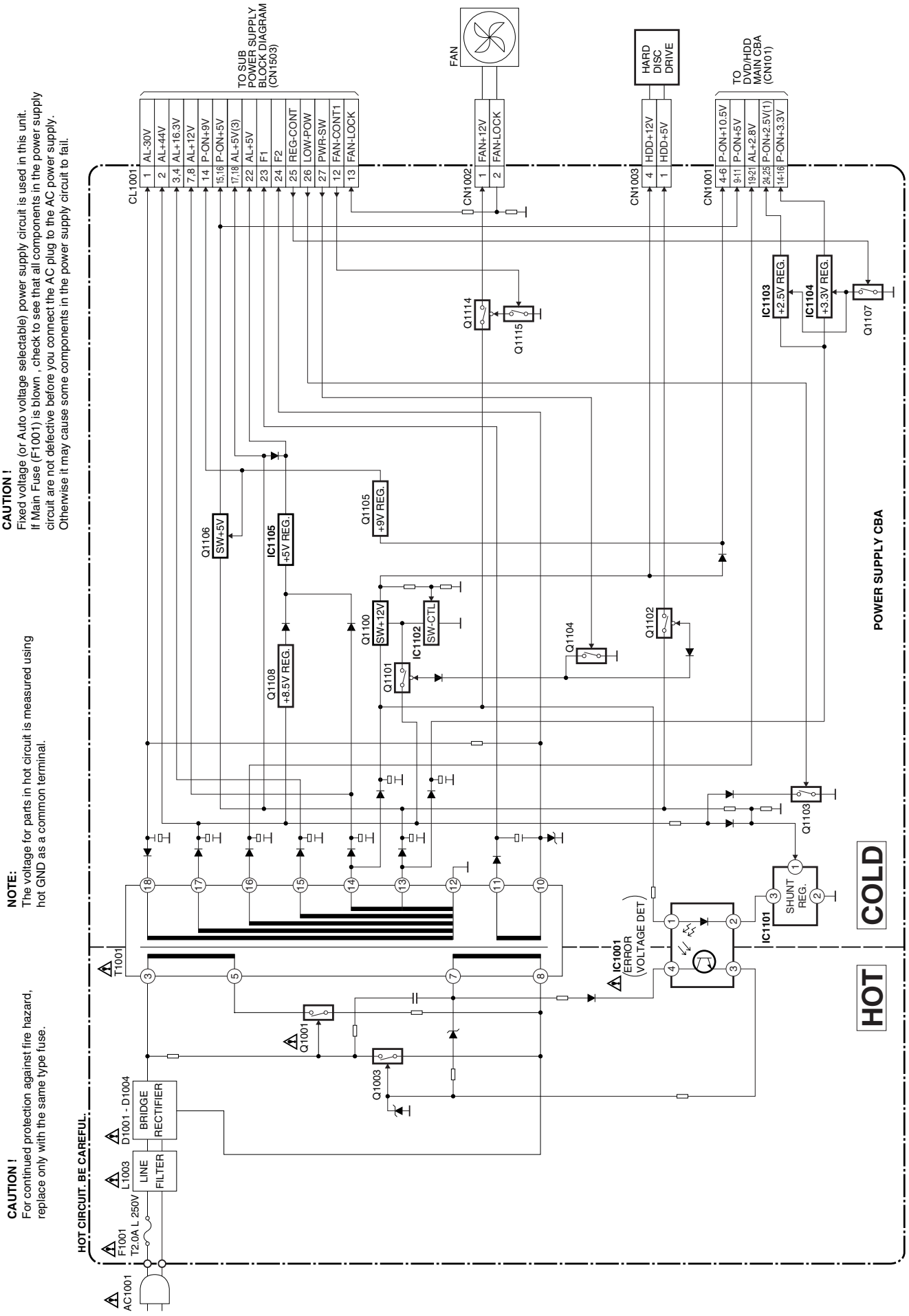
# Audio Block Diagram



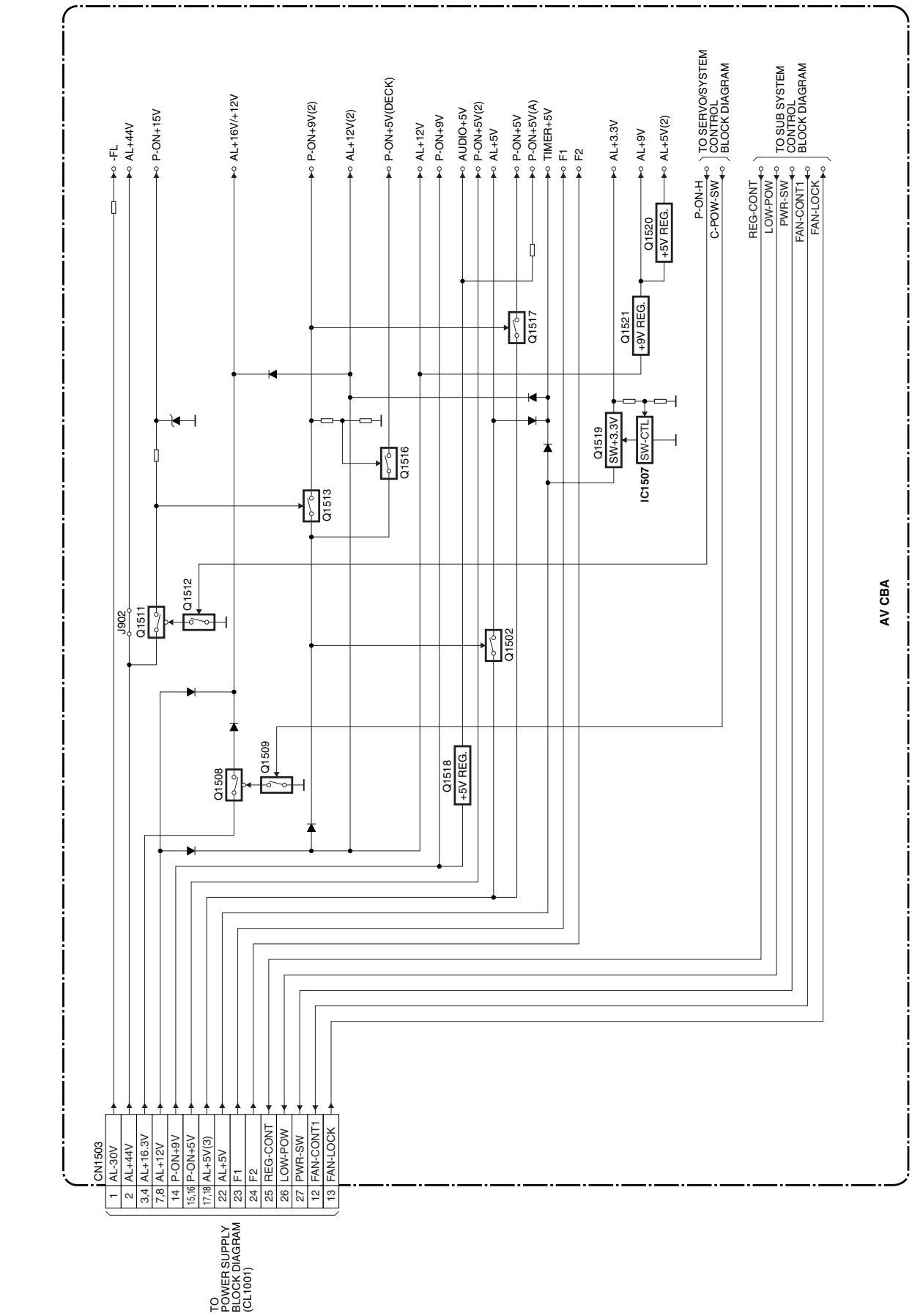
# Hi-Fi Audio Selector Block Diagram



# Power Supply Block Diagram



# Sub Power Supply Block Diagram



# SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

## Standard Notes

## WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

## Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

## LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

### 1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

### 2. CAUTION:

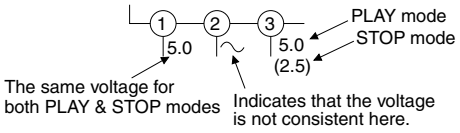
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

### 3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

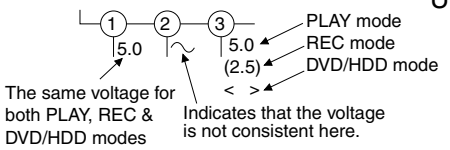
### 4. Voltage indications for PLAY and REC modes on the schematics are as shown below:

< DVD/HDD Section >




< VCR Section >

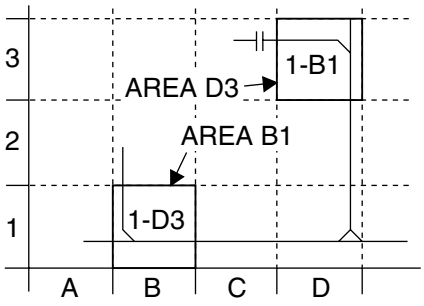
Unit: Volts




### 5. How to read converged lines

1-D3
- Distinction Area
- Line Number (1 to 3 digits)

Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".




### 6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

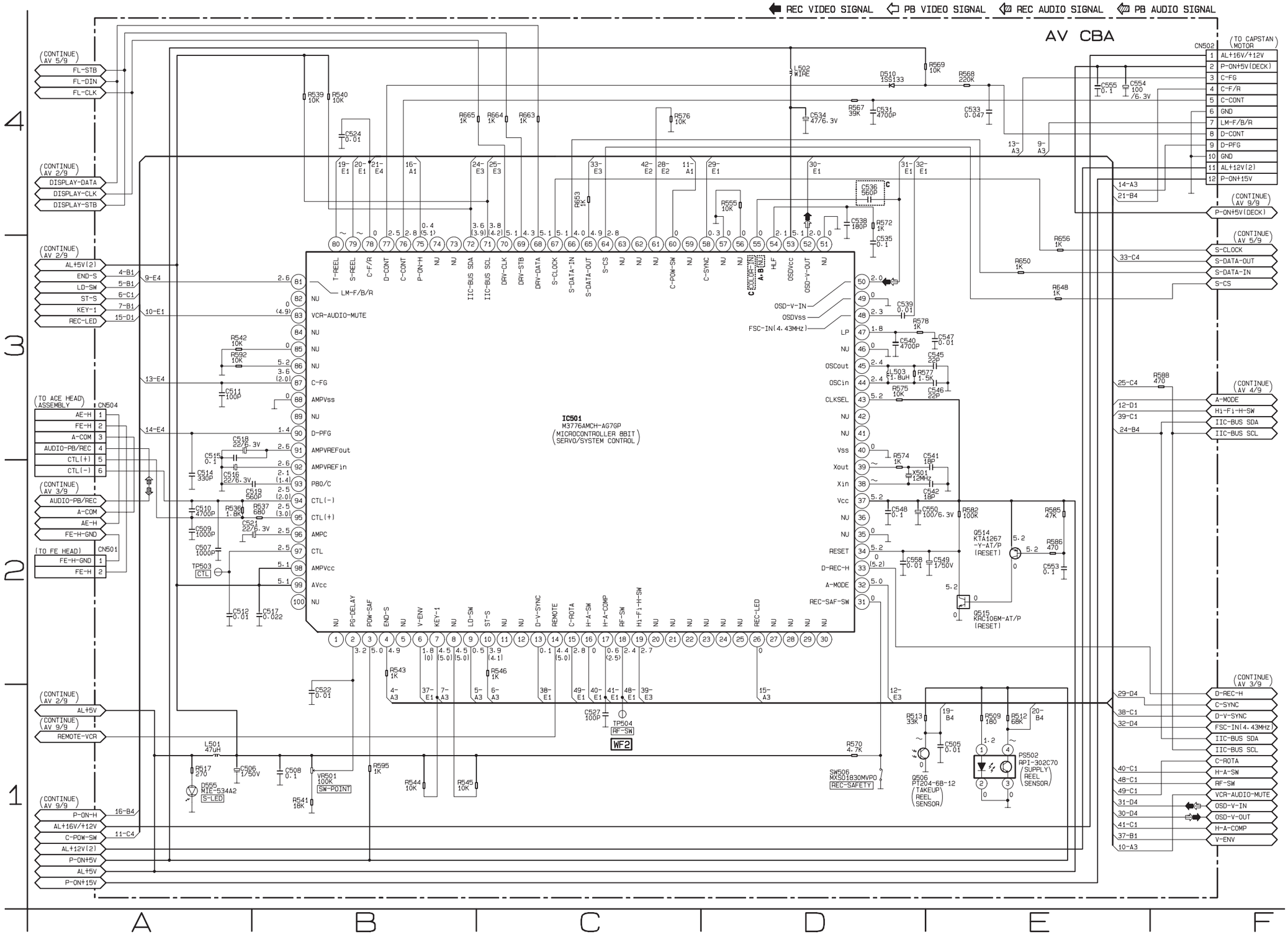
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

# AV 1/9 Schematic Diagram < VCR Section >

**Comparison Chart of Models and Marks**

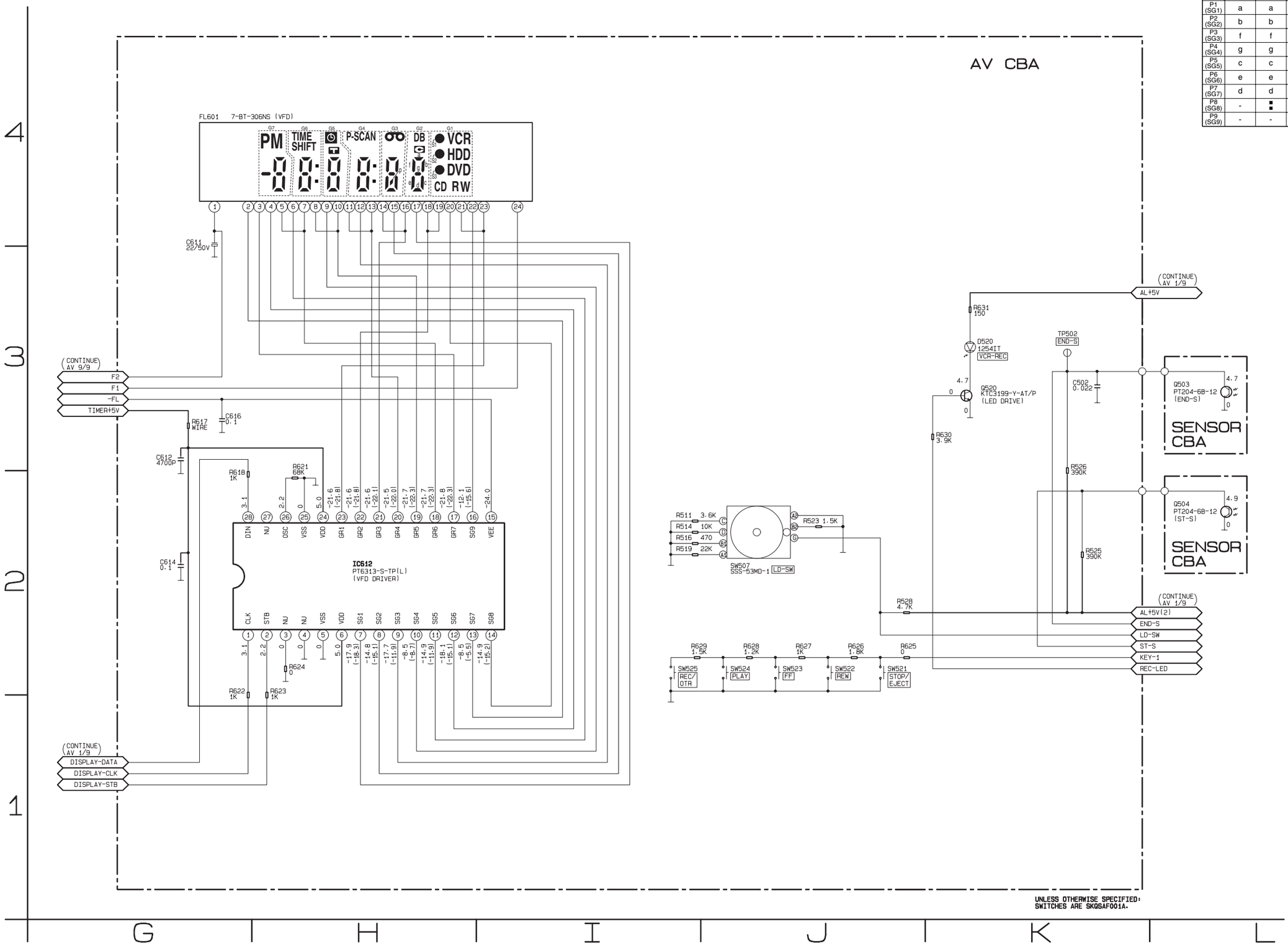
| MODEL | MARK |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |



# AV 2/9 & Sensor Schematic Diagram < VCR Section >

FL601 MATRIX CHART

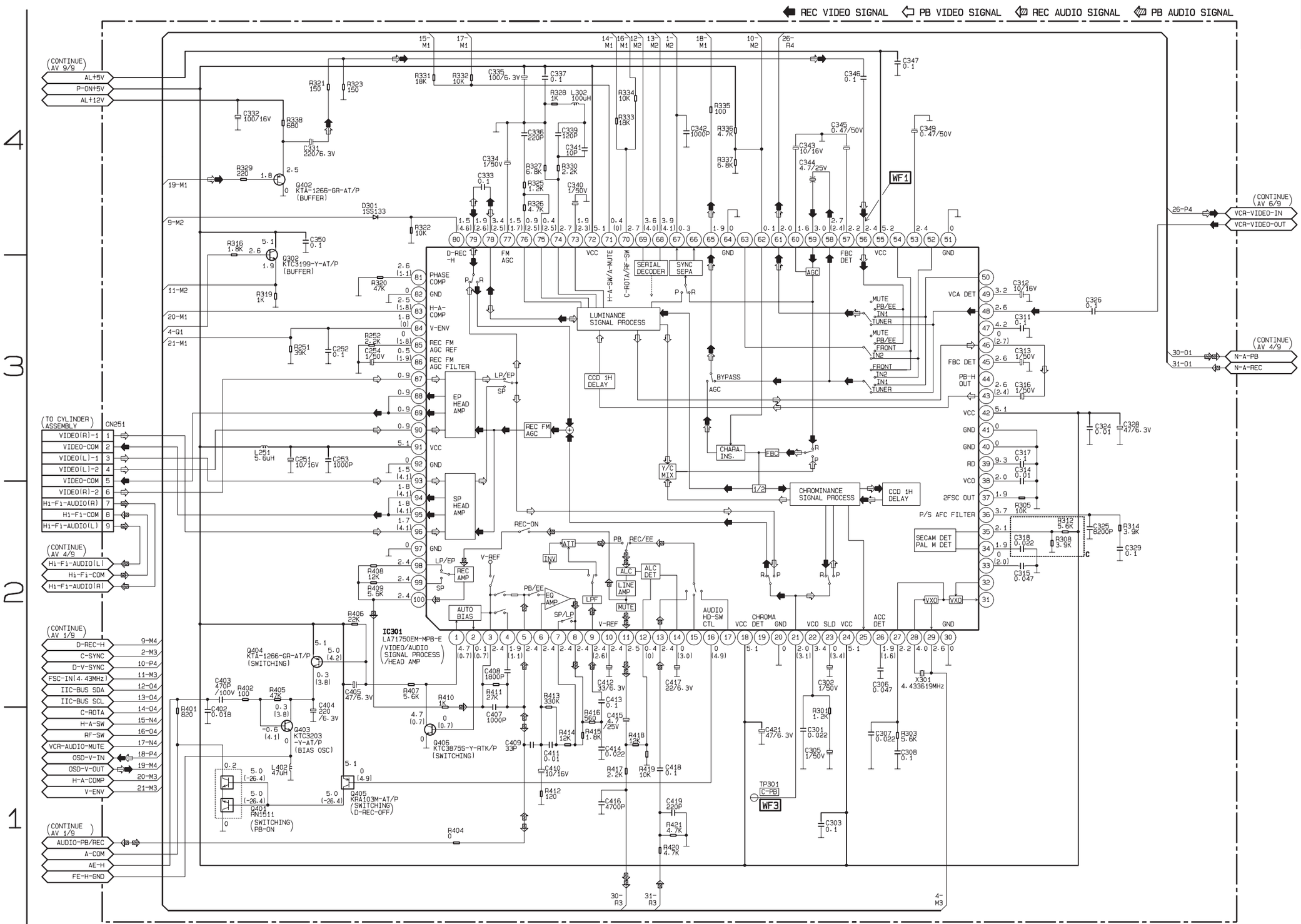
| | G7(GR7) | G6(GR6) | G5(GR5) | G4(GR4) | G3(GR3) | G2(GR2) | G1(GR1) |
|---|---|---|---|---|---|---|---|
| P1 (SG1) | a | a | a | a | a | a | CD |
| P2 (SG2) | b | b | b | b | b | b | W |
| P3 (SG3) | f | f | f | f | f | f | R |
| P4 (SG4) | g | g | g | g | g | g | ●(S3) |
| P5 (SG5) | c | c | c | c | c | c | DVD |
| P6 (SG6) | e | e | e | e | e | e | ●(S2) |
| P7 (SG7) | d | d | d | d | d | d | HDD |
| P8 (SG8) | - | : | T | : | p | C | ●(S1) |
| P9 (SG9) | - | - | ⏲ | P-SCAN | ∞ | DB | VCR |



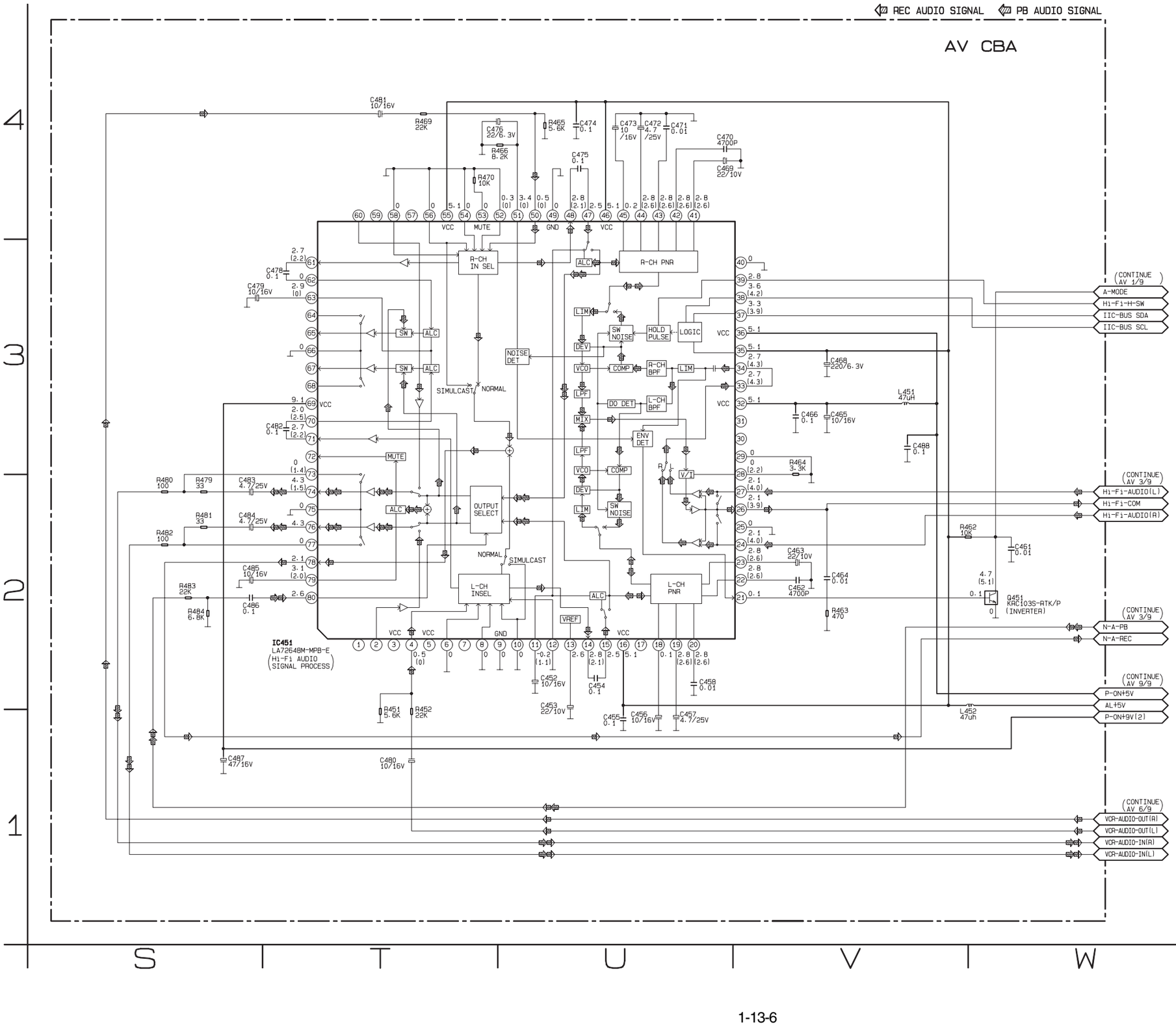
# AV 3/9 Schematic Diagram < VCR Section >

**Comparison Chart of Models and Marks**

| MODEL | MARK |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |



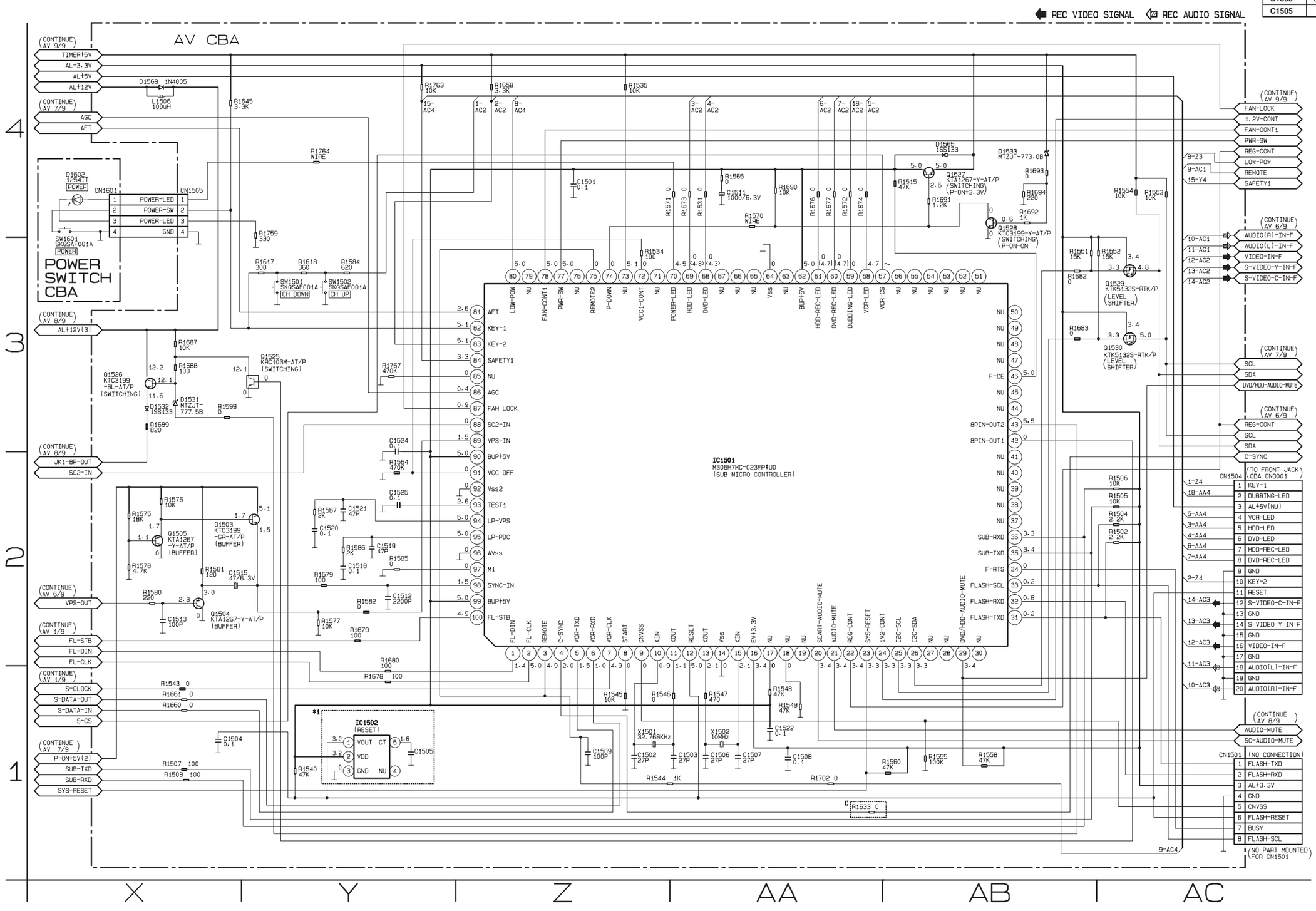
## AV 4/9 Schematic Diagram < VCR Section >



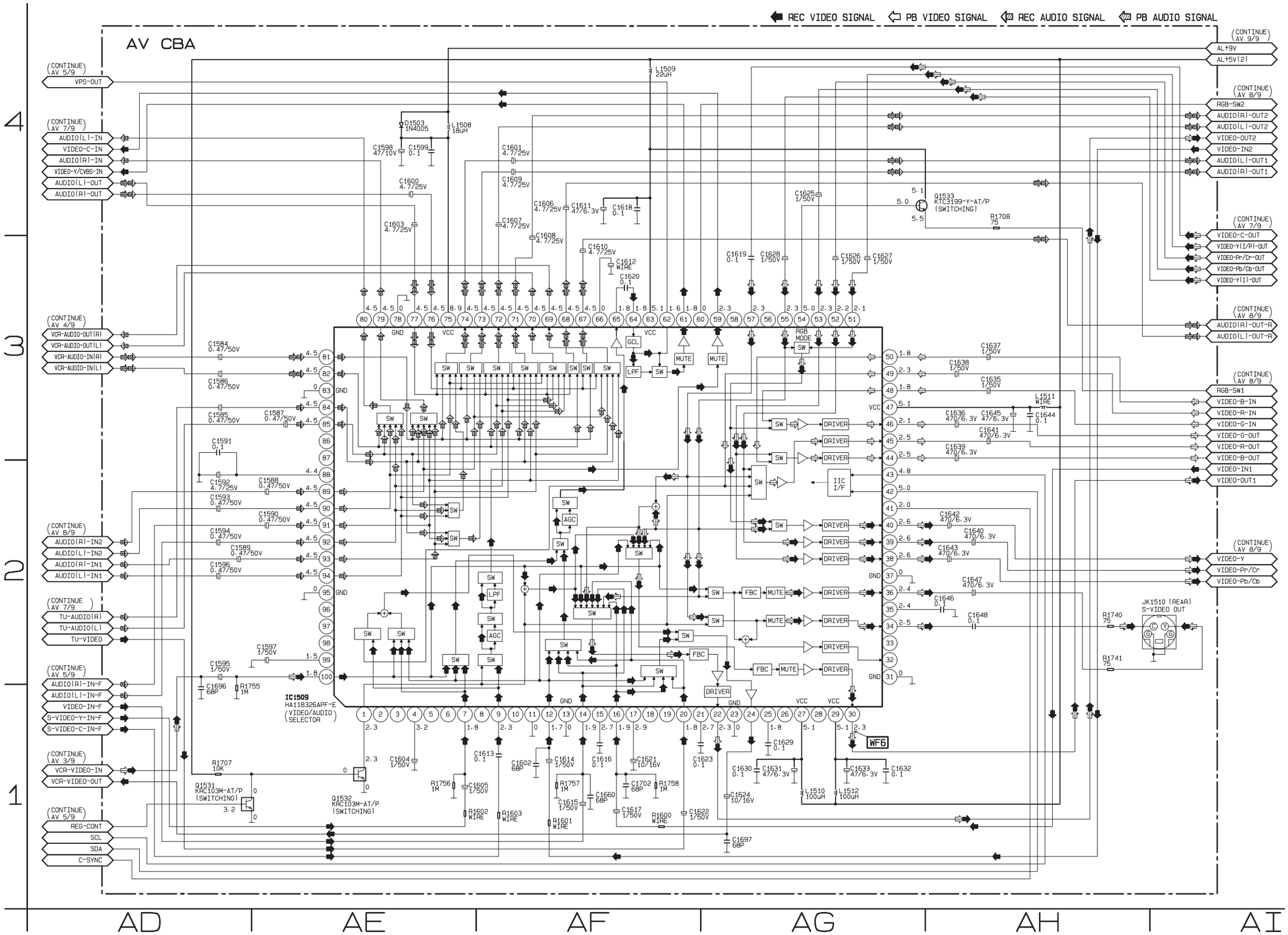
# AV 5/9 & Power SW Schematic Diagram < VCR Section >

***1 NOTE**
**These components (IC1502, C1505) can be used in any models.**
**However, you cannot mix components under Group A with the ones under Group B.**
**You can choose either Group. The difference between Group A and Group B is shown below.**

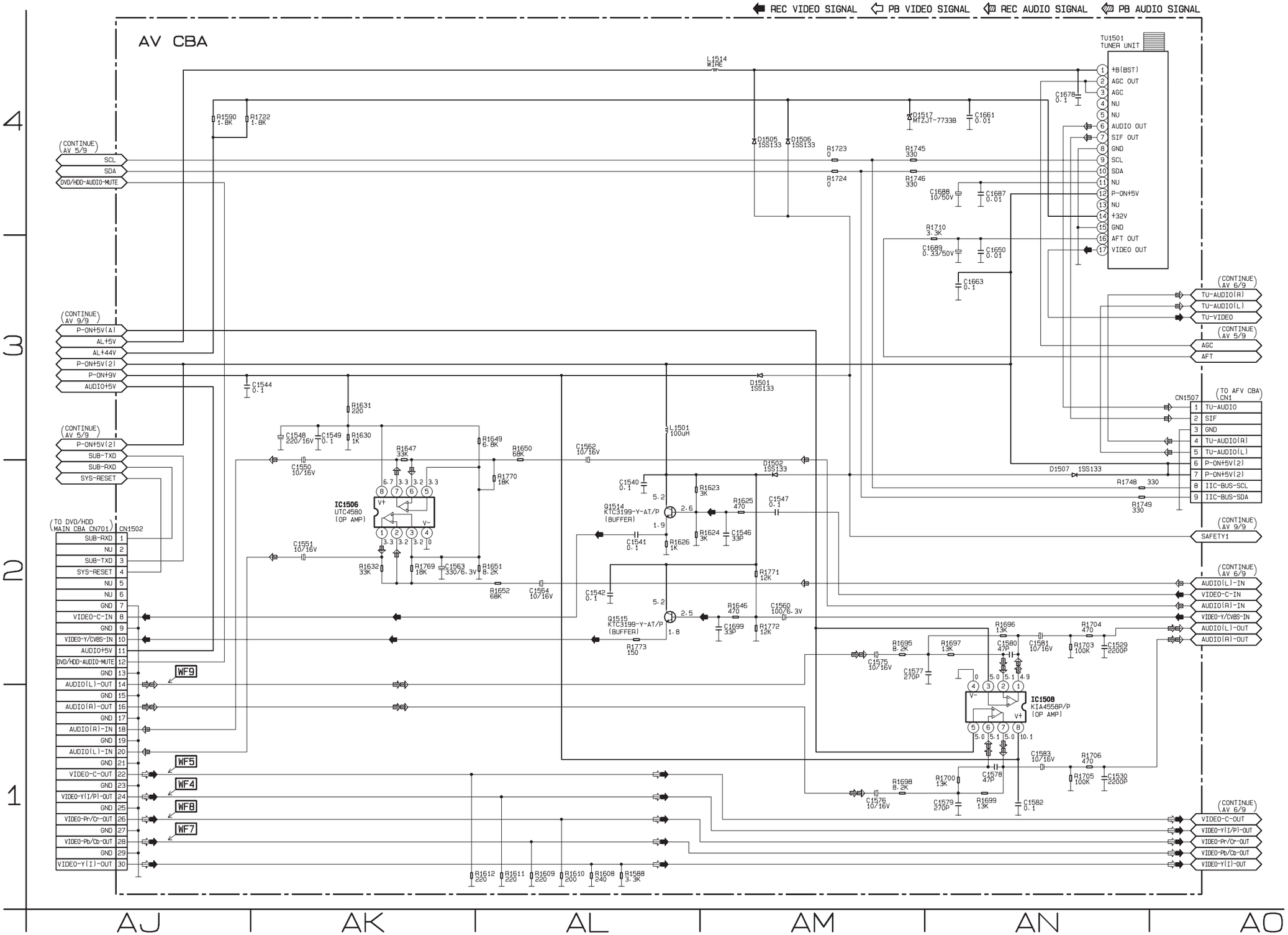
| | Group A | Group B |
|---|---|---|
| IC1502 | R3112N211A-TR-F | ---------- |
| IC1502 | ---------- | PST3621NR |
| C1505 | 0.015 | ---------- |
| C1505 | ---------- | 0.15 |



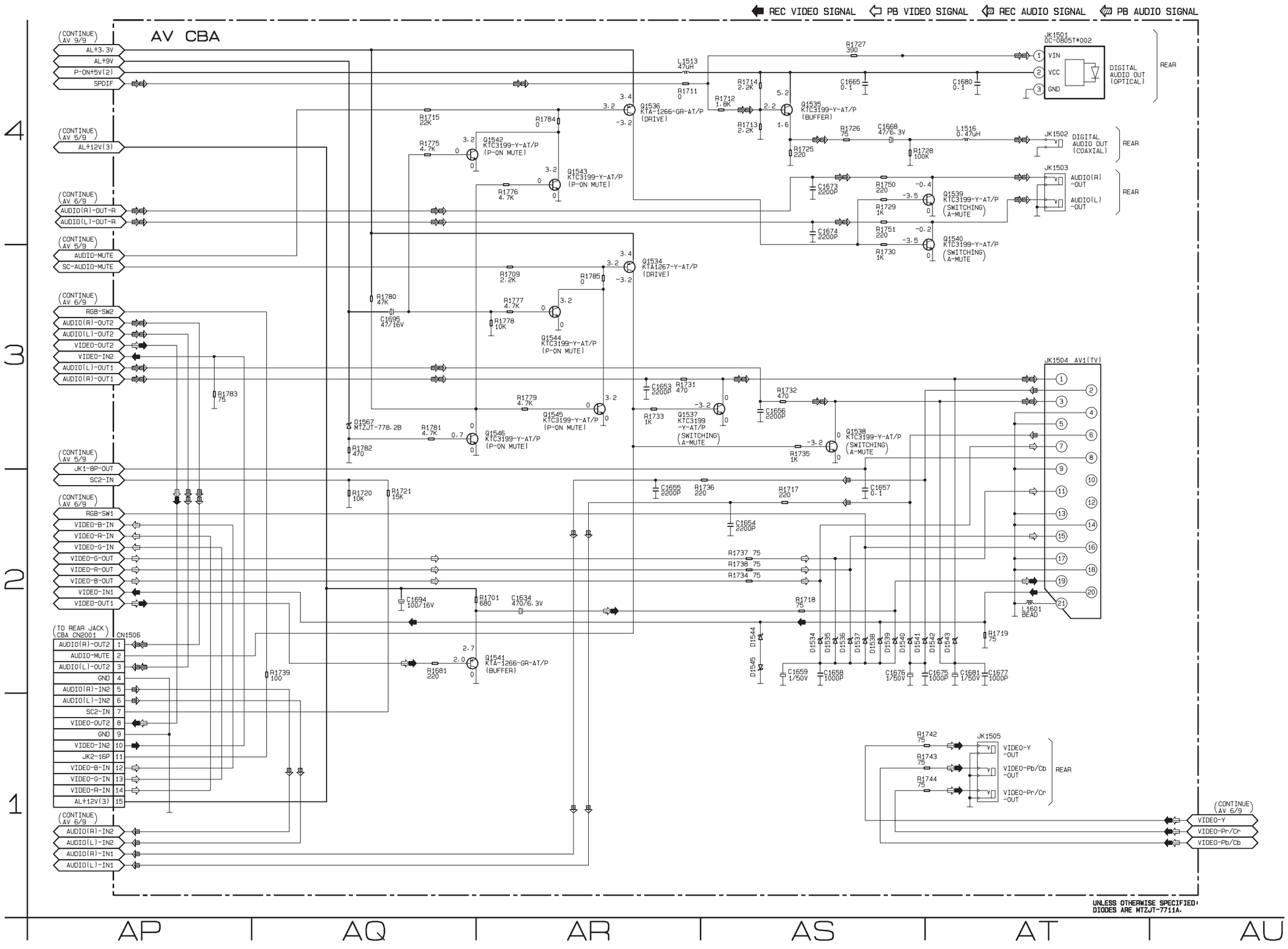
# AV 6/9 Schematic Diagram < VCR Section >



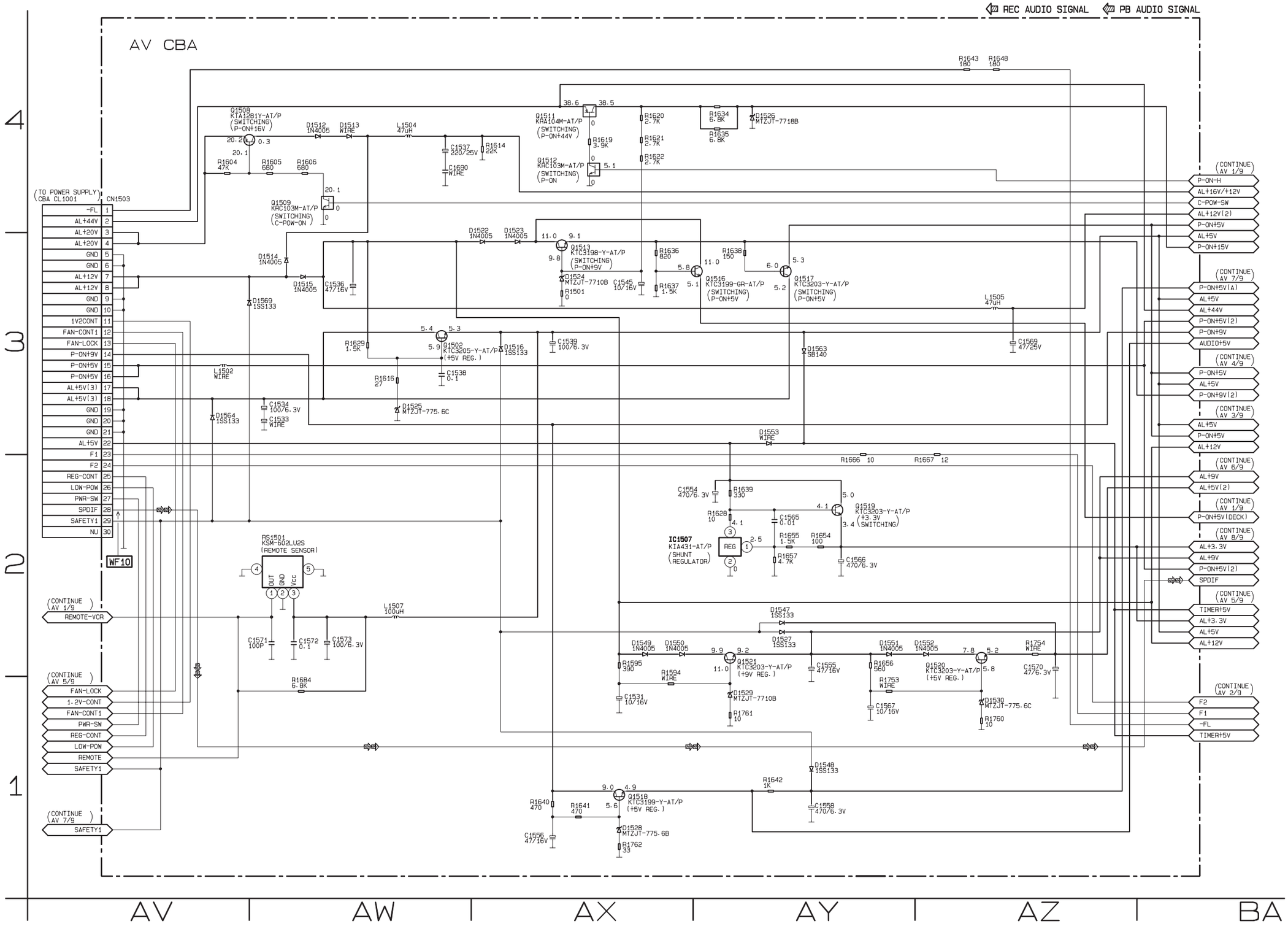
# AV 7/9 Schematic Diagram < VCR Section >



# AV 8/9 Schematic Diagram < VCR Section >



# AV 9/9 Schematic Diagram < VCR Section >

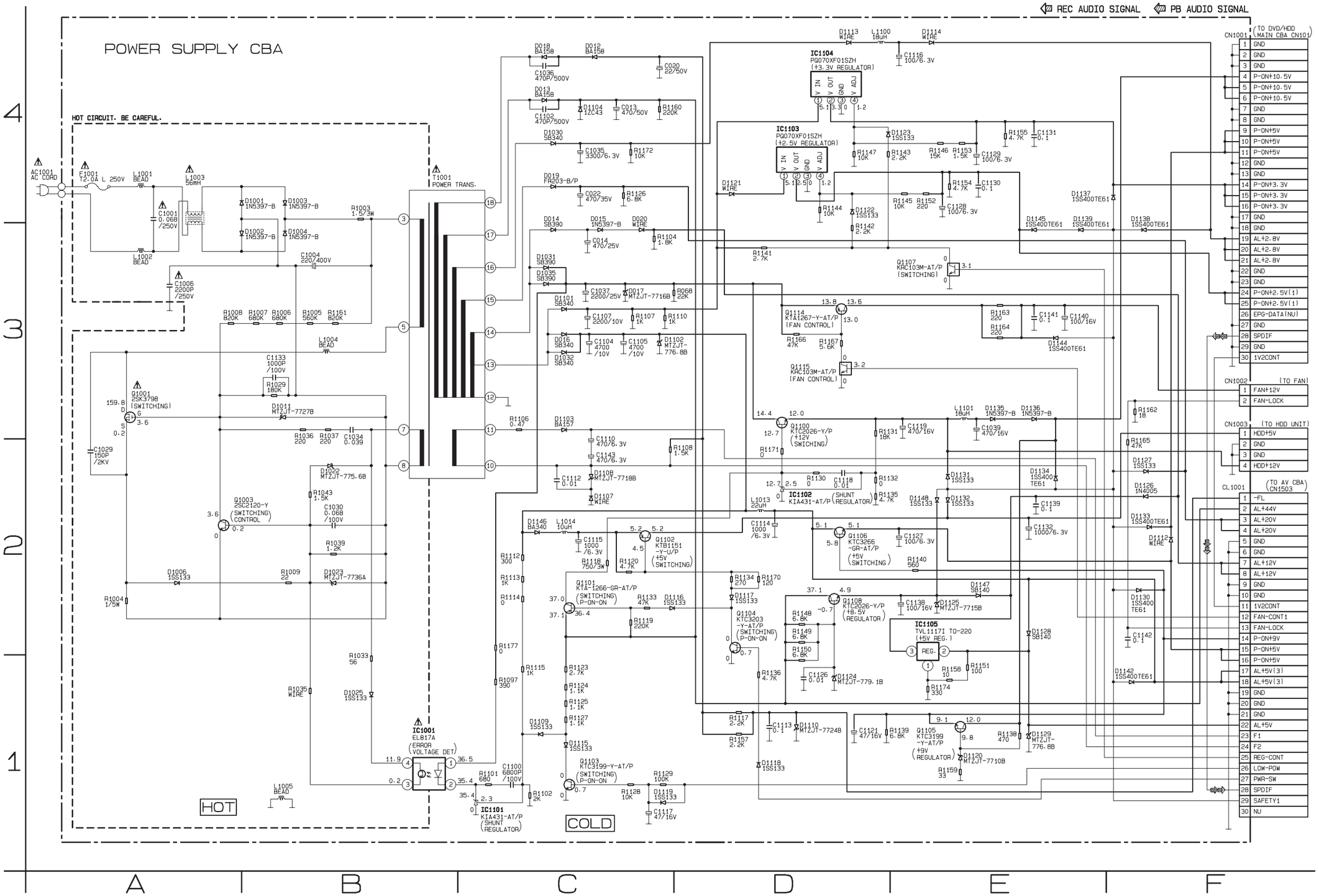


# Power Supply Schematic Diagram < VCR Section >

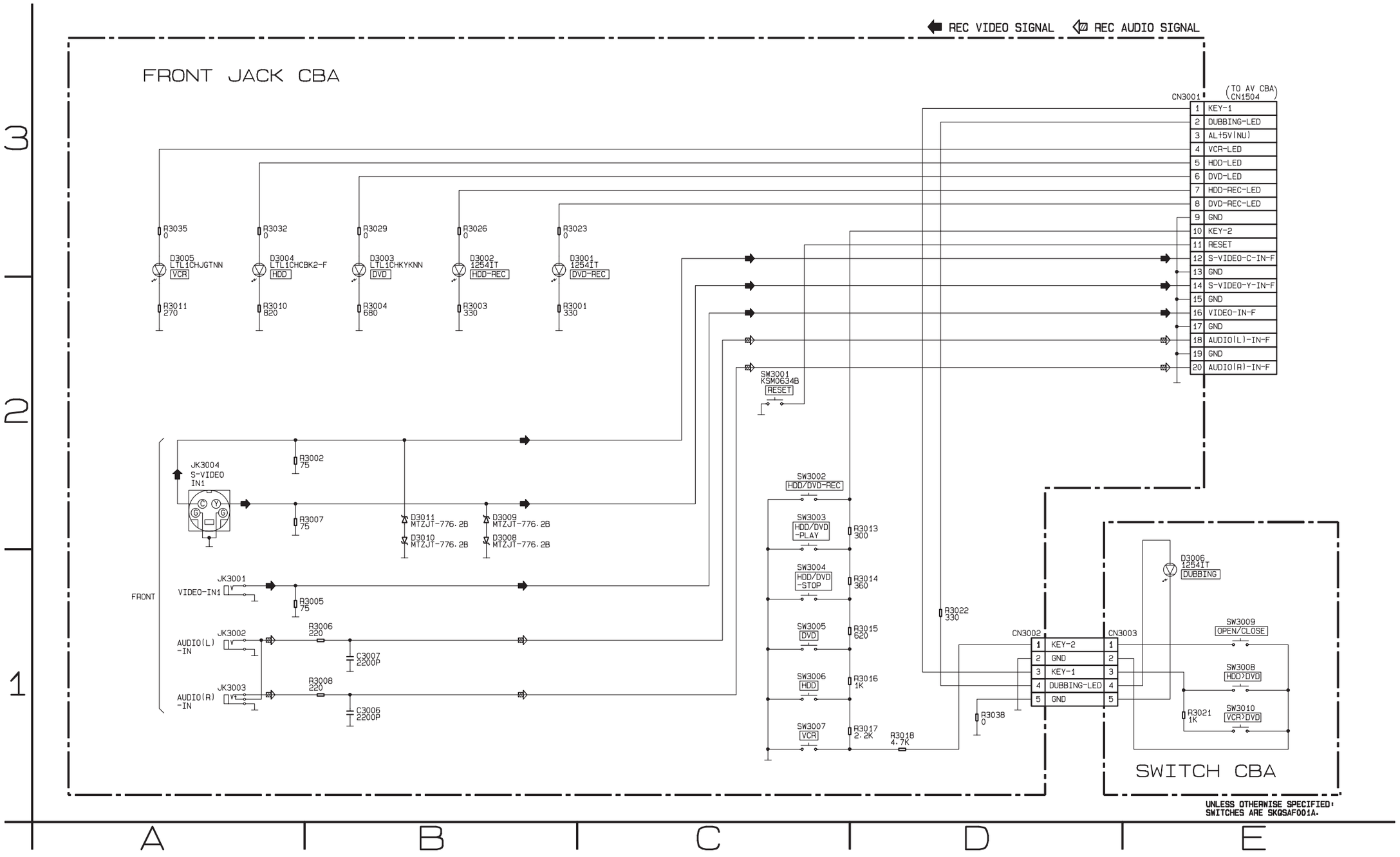
**CAUTION !**
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

**CAUTION !**
For continued protection against fire hazard, replace only with the same type fuse.

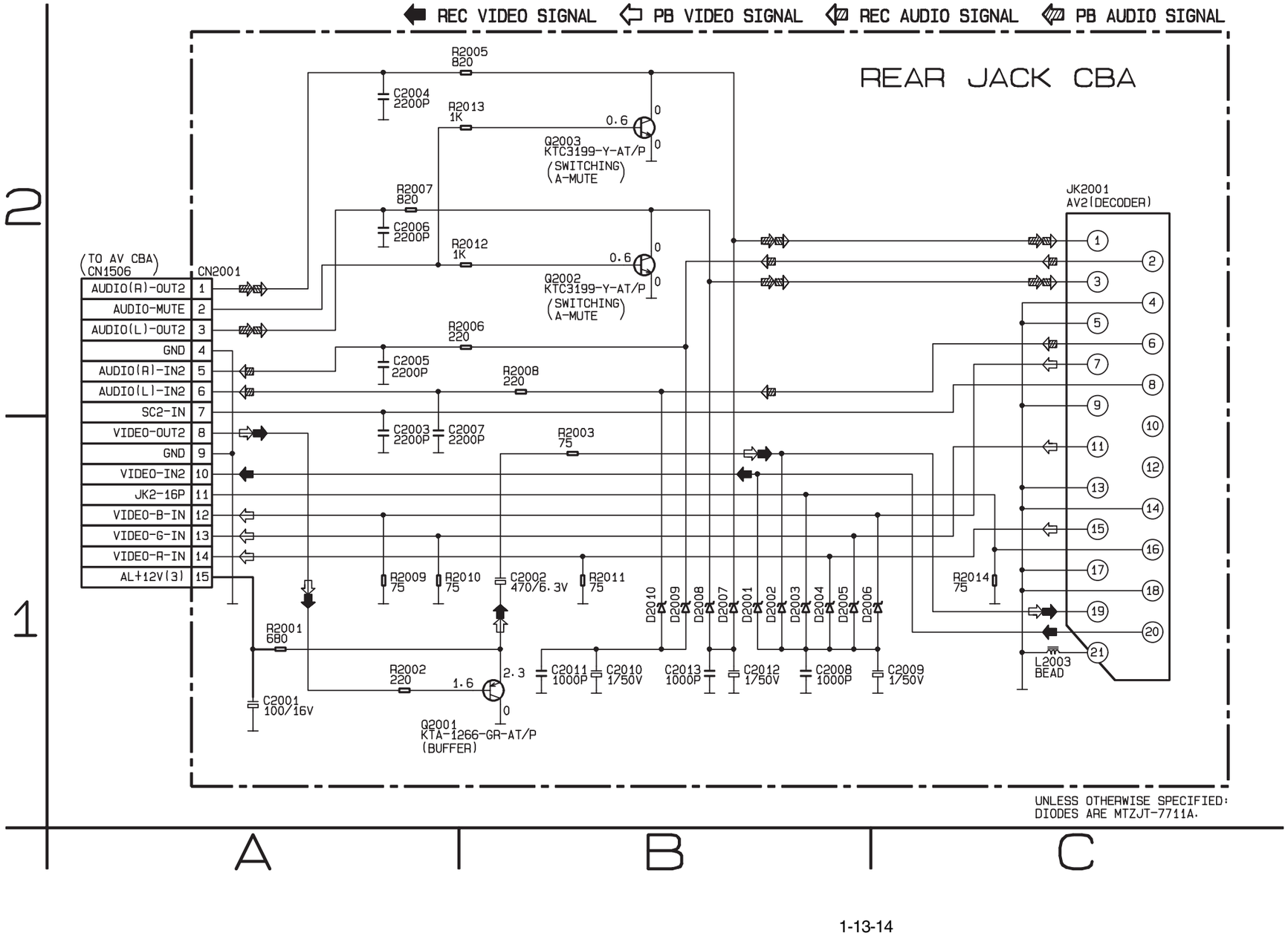
**NOTE:**
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



## Front Jack & SW Schematic Diagram < VCR Section >



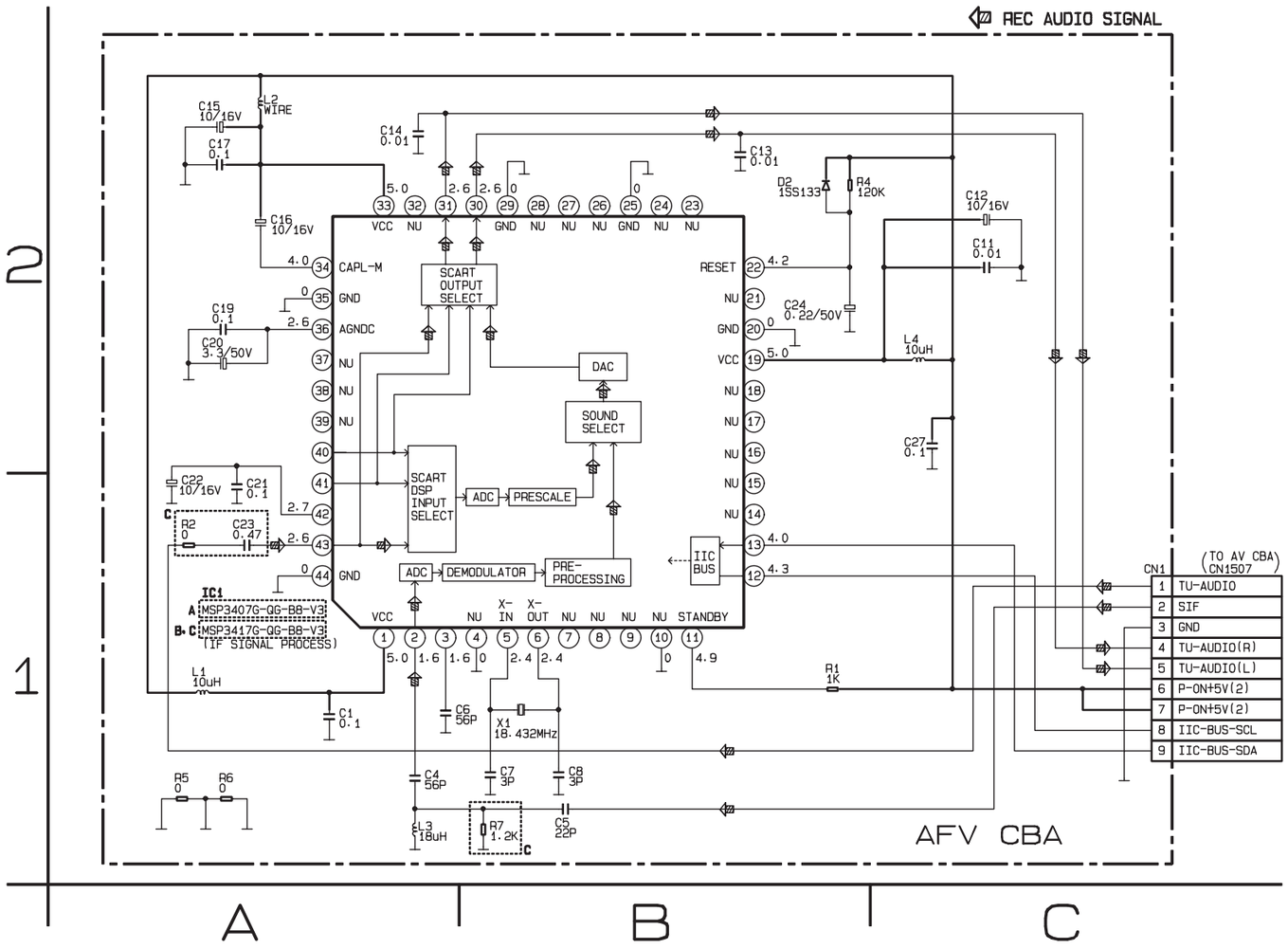
## Rear Jack Schematic Diagram < VCR Section >



## AFV Schematic Diagram < VCR Section >

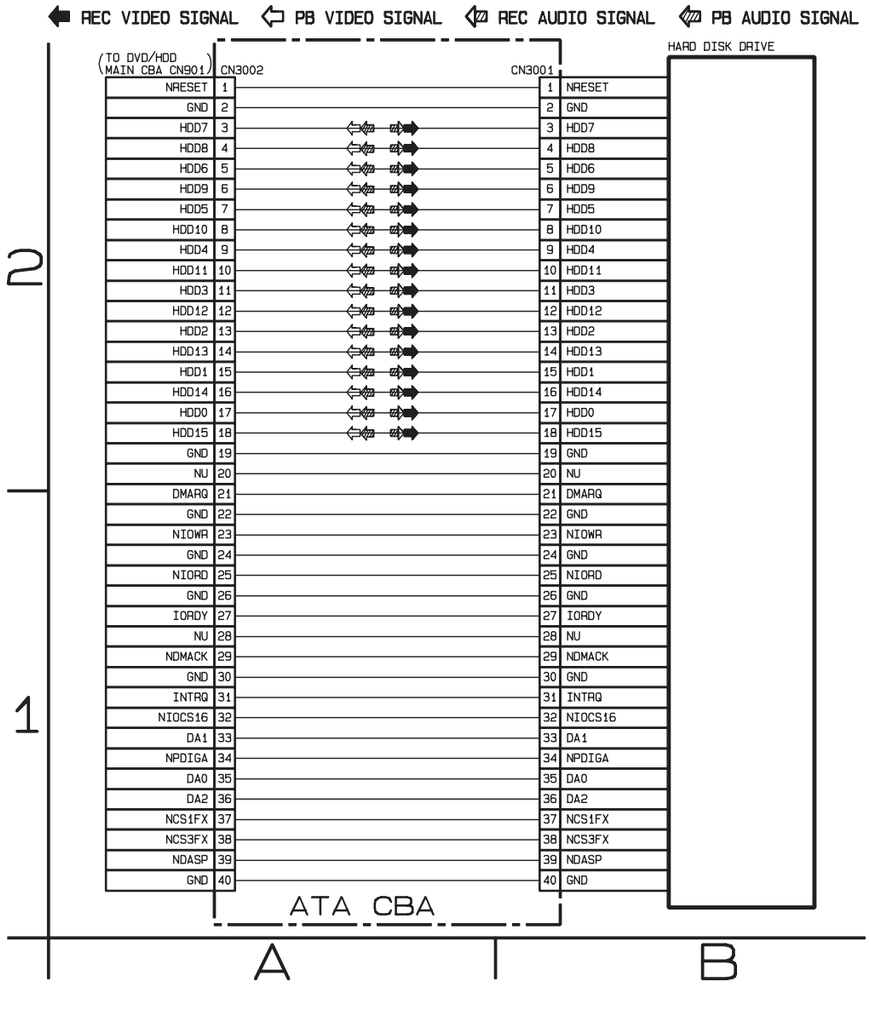
**Comparison Chart of Models and Marks**

| MODEL | MARK |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |




E3B40SCAFV

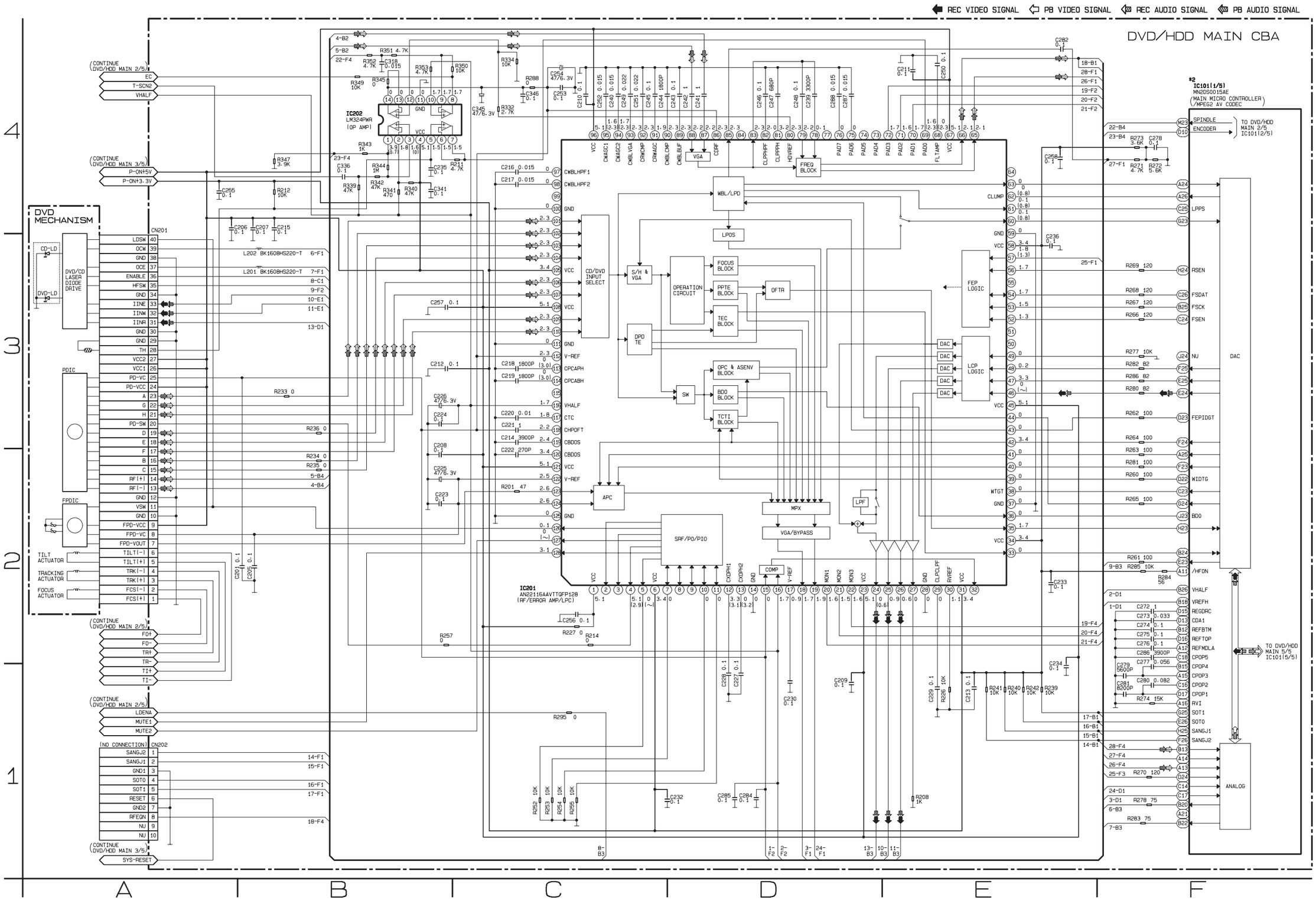
## ATA Schematic Diagram < DVD/HDD Section >




E3B40SCAT

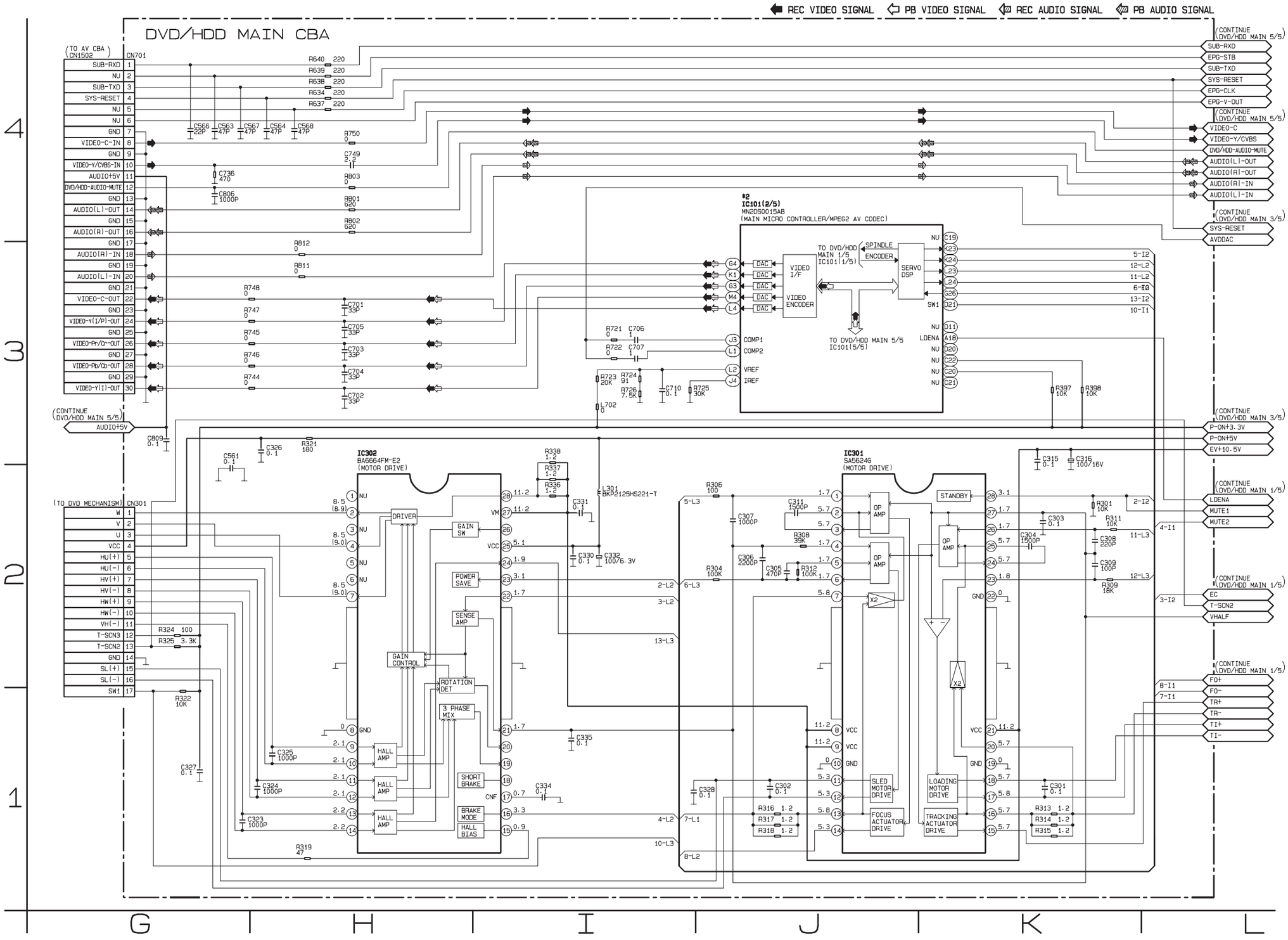
# DVD/HDD MAIN 1/5 Schematic Diagram < DVD/HDD Section >

**∗2 NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into five and shown as IC101 (1/5) ~ IC101 (5/5) in this DVD/HDD Main Schematic Diagram Section.



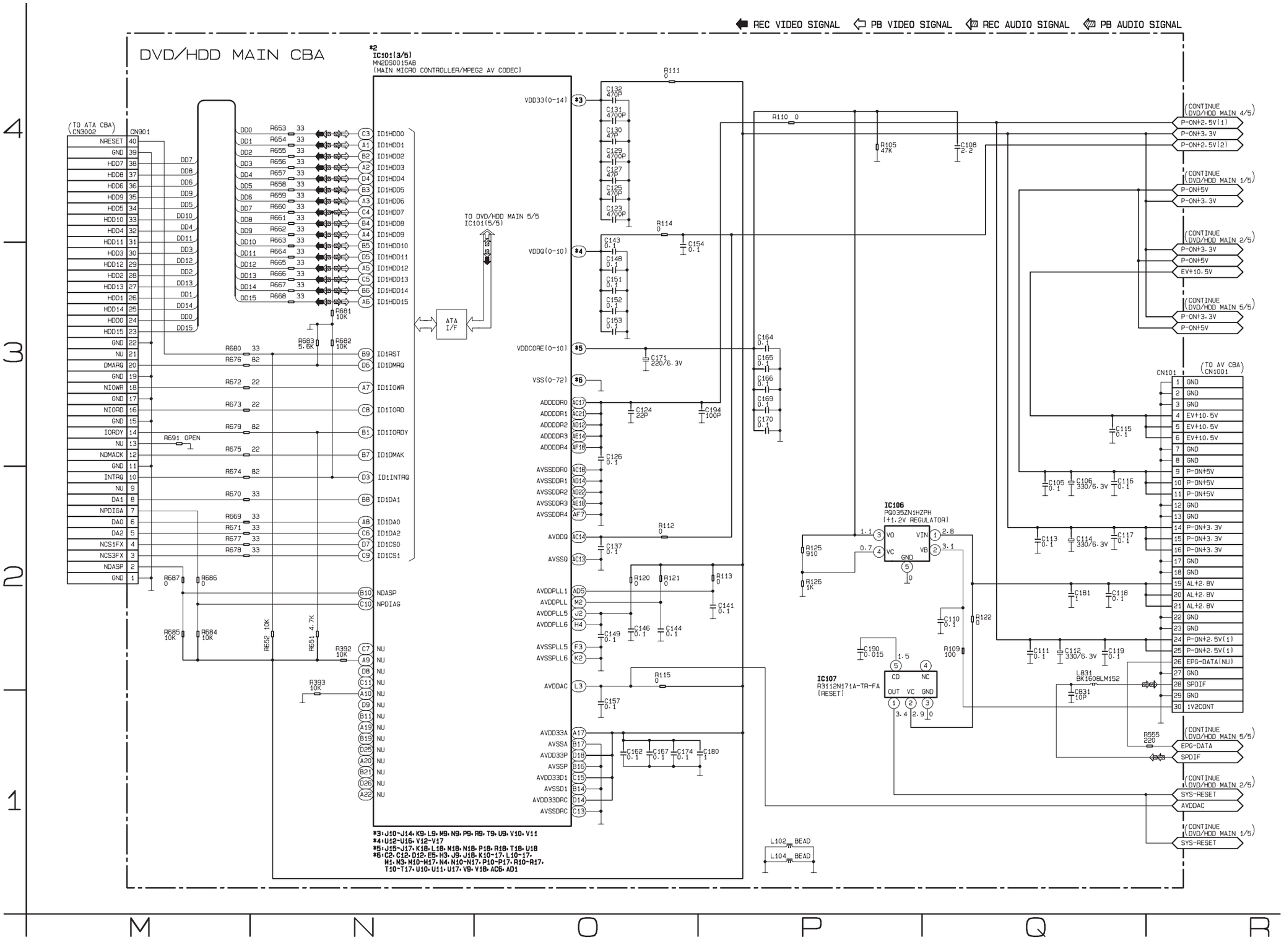
# DVD/HDD MAIN 2/5 Schematic Diagram < DVD/HDD Section >

**＊2 NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into five and shown as IC101 (1/5) ~ IC101 (5/5) in this DVD/HDD Main Schematic Diagram Section.



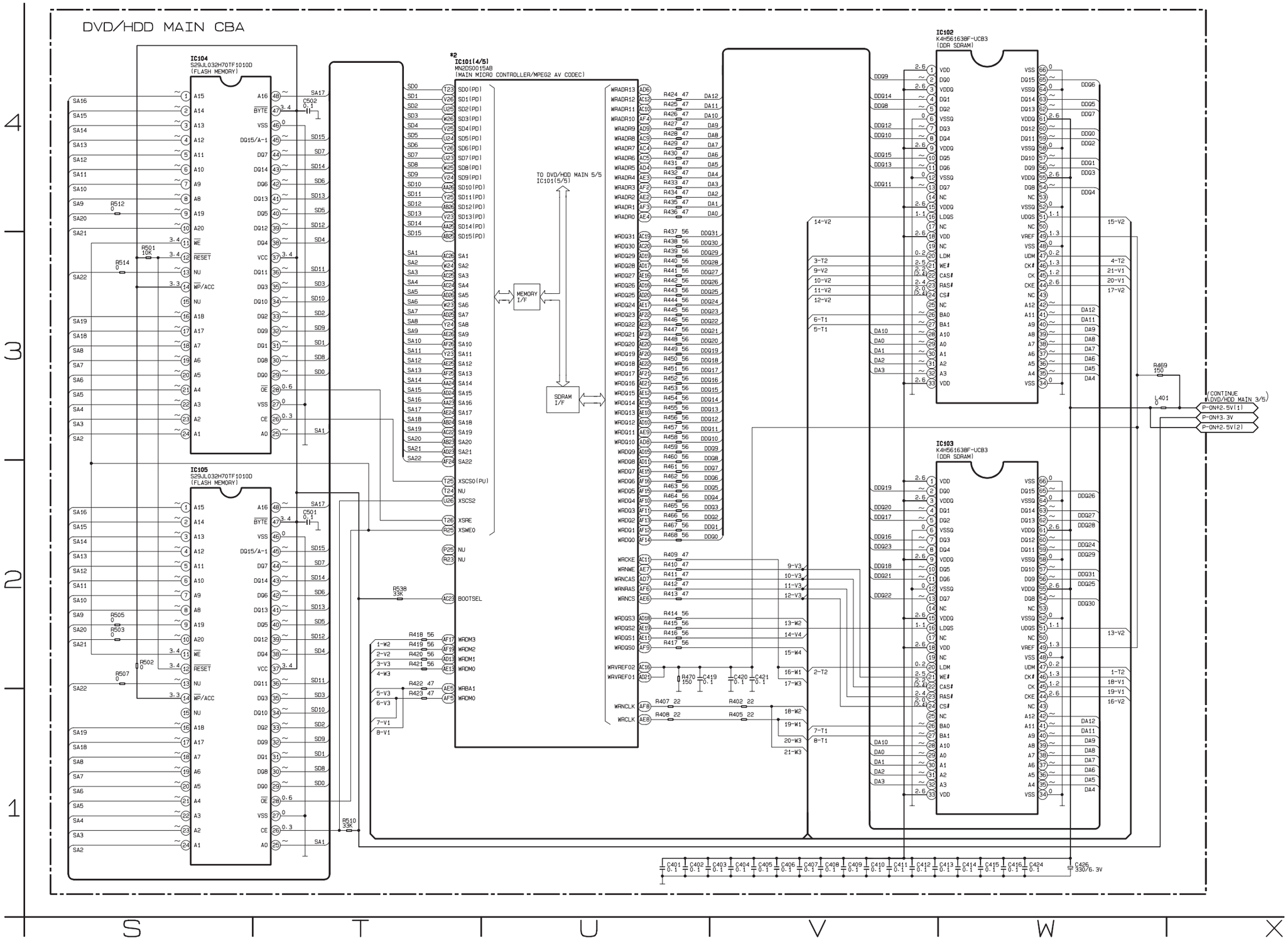
# DVD/HDD MAIN 3/5 Schematic Diagram < DVD/HDD Section >

**＊2 NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into five and shown as IC101 (1/5) ~ IC101 (5/5) in this DVD/HDD Main Schematic Diagram Section.



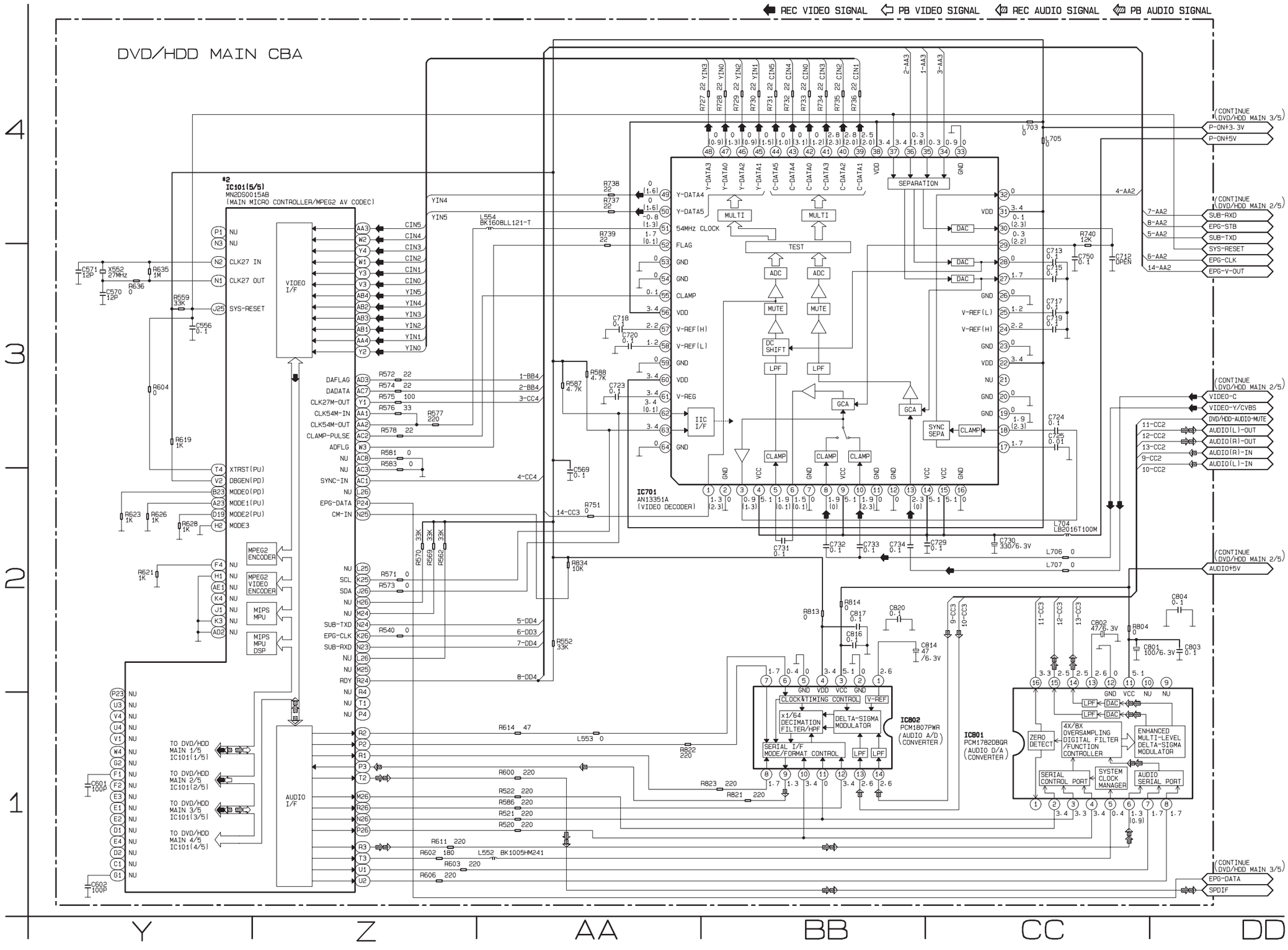
# DVD/HDD MAIN 4/5 Schematic Diagram < DVD/HDD Section >

**∗2 NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into five and shown as IC101 (1/5) ~ IC101 (5/5) in this DVD/HDD Main Schematic Diagram Section.

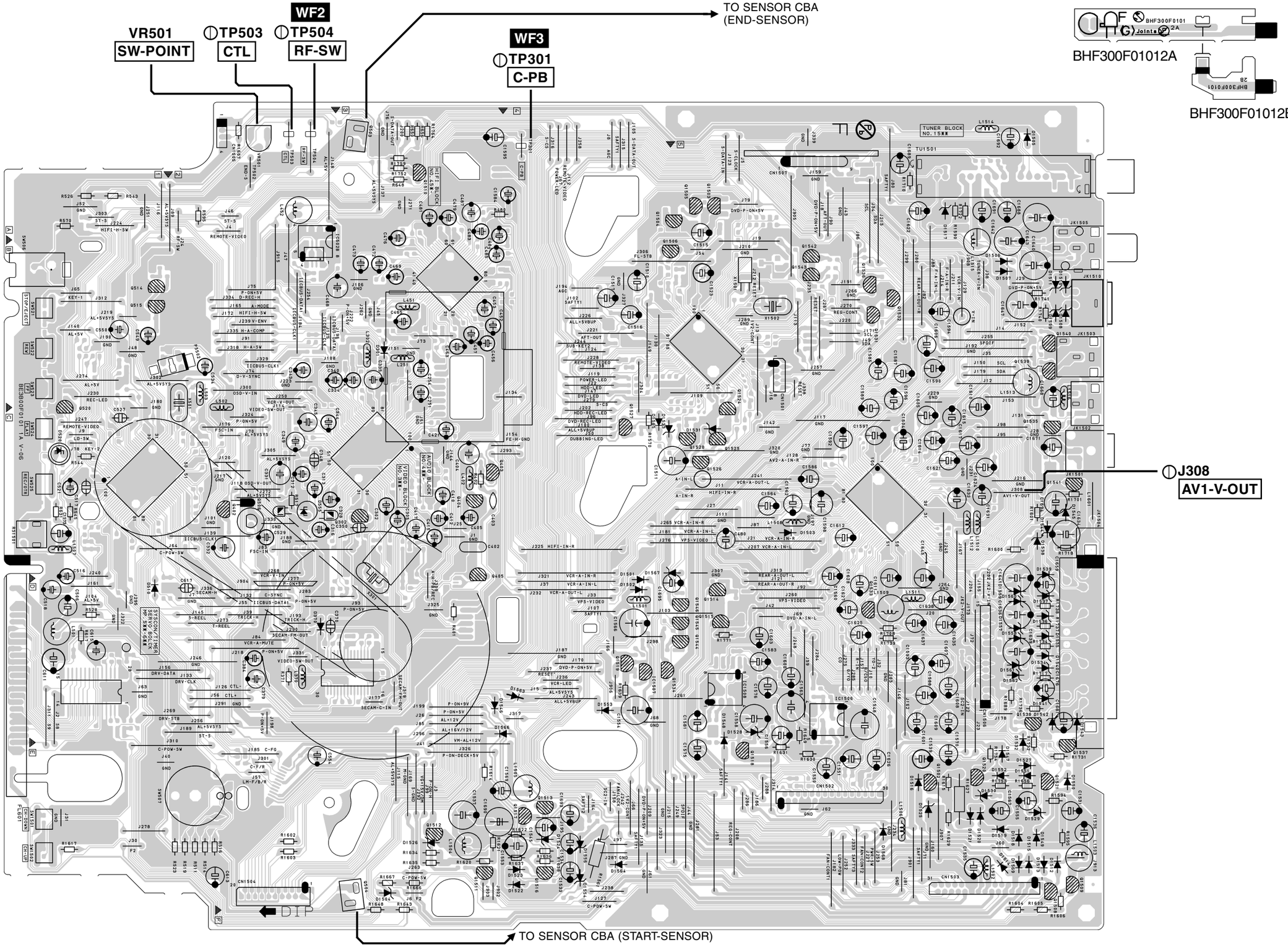


# DVD/HDD MAIN 5/5 Schematic Diagram < DVD/HDD Section >

**∗2 NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into five and shown as IC101 (1/5) ~ IC101 (5/5) in this DVD/HDD Main Schematic Diagram Section.

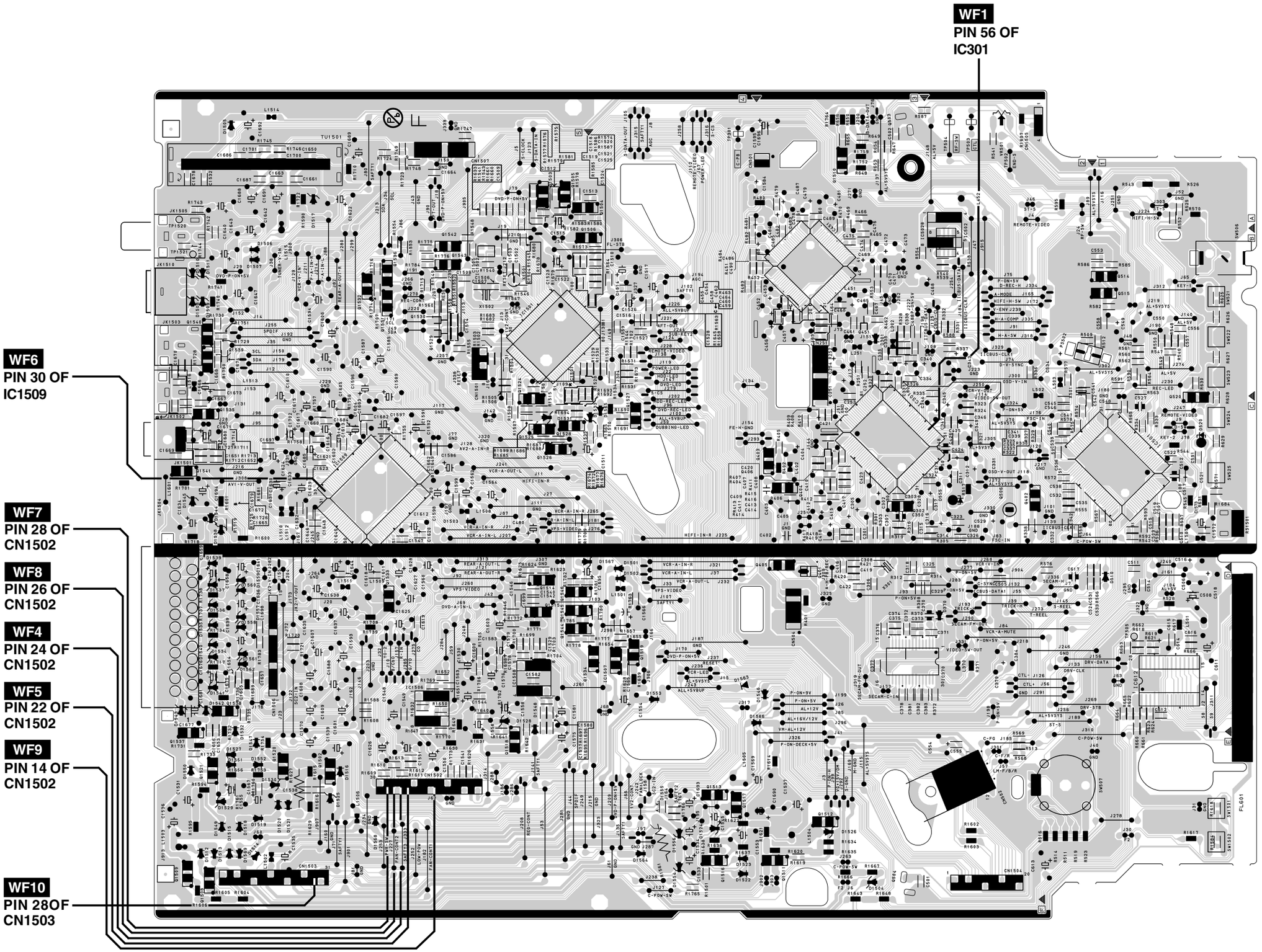


## AV CBA Top View




## Sensor CBA Top View

## AV CBA Bottom View



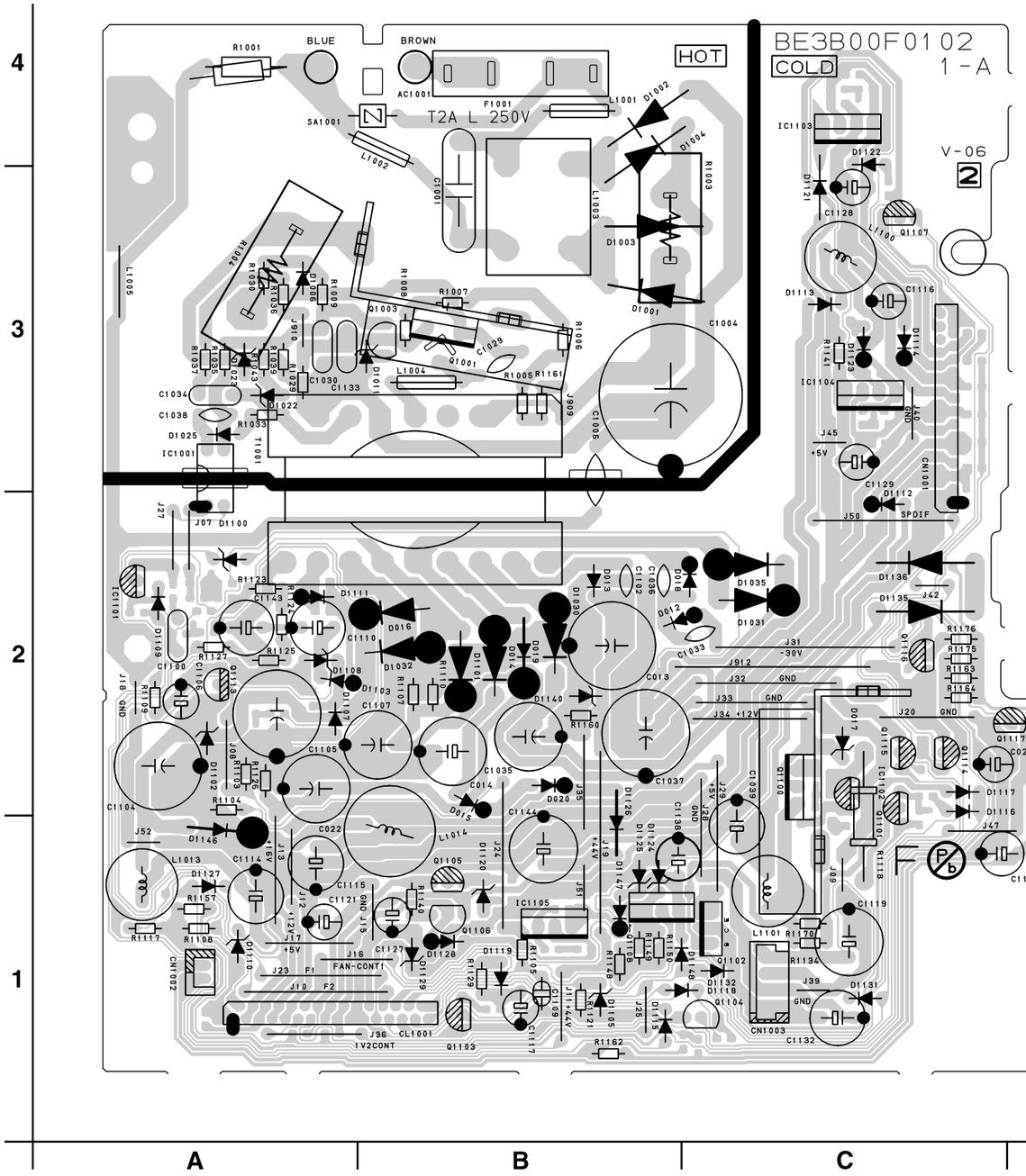
# Power Supply CBA Top View

**CAUTION !**
For continued protection against fire hazard, replace only with the same type fuse.

**NOTE:**
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

**CAUTION !**
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

**Because a hot chassis ground is present in the power supply circut, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.**



# Power Supply CBA Bottom View

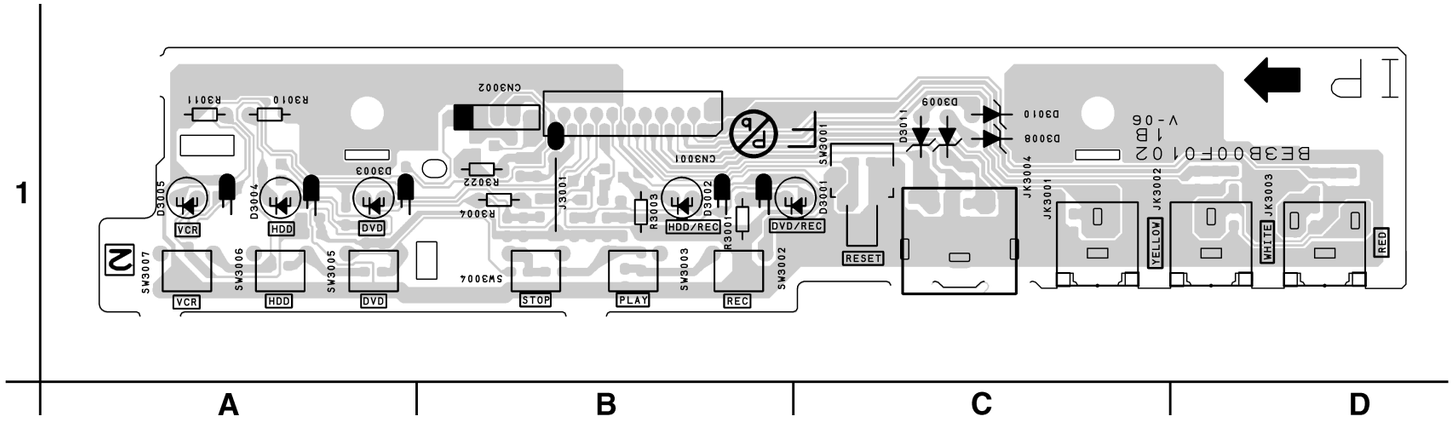
**CAUTION !**
For continued protection against fire hazard, replace only with the same type fuse.

**NOTE:**
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

**CAUTION !**
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

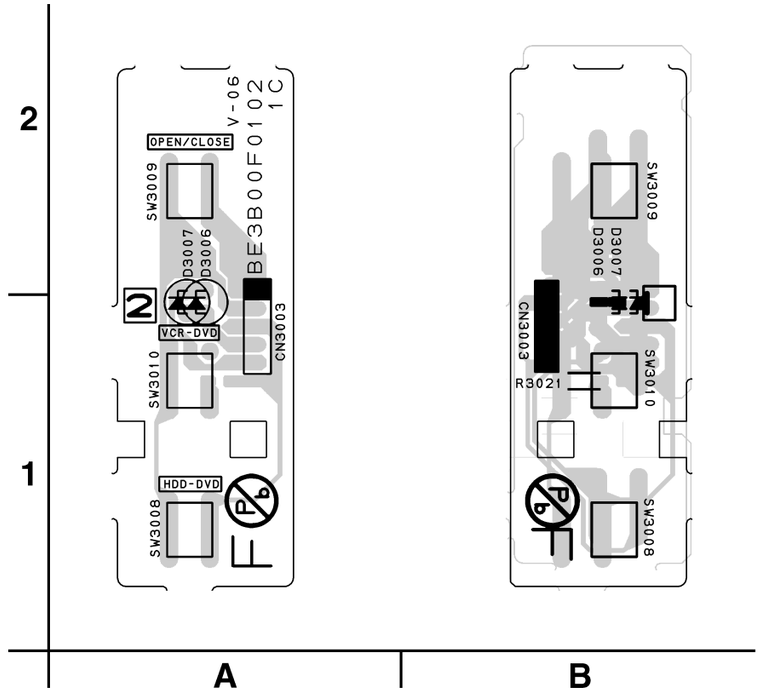
**Because a hot chassis ground is present in the power supply circut, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.**

## Front Jack CBA Top View

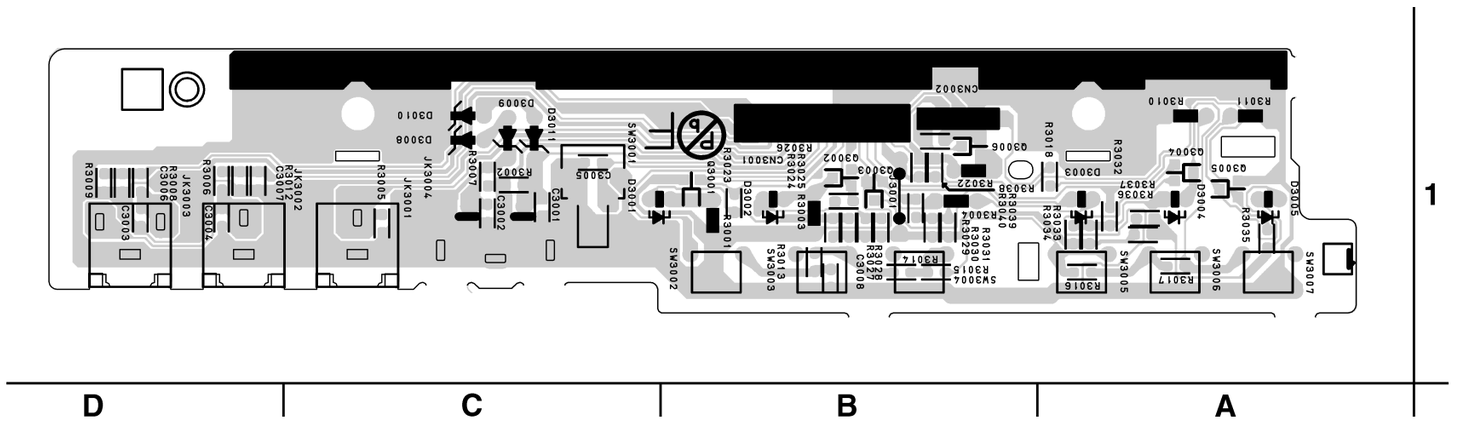



## SW CBA Top View

## SW CBA Bottom View



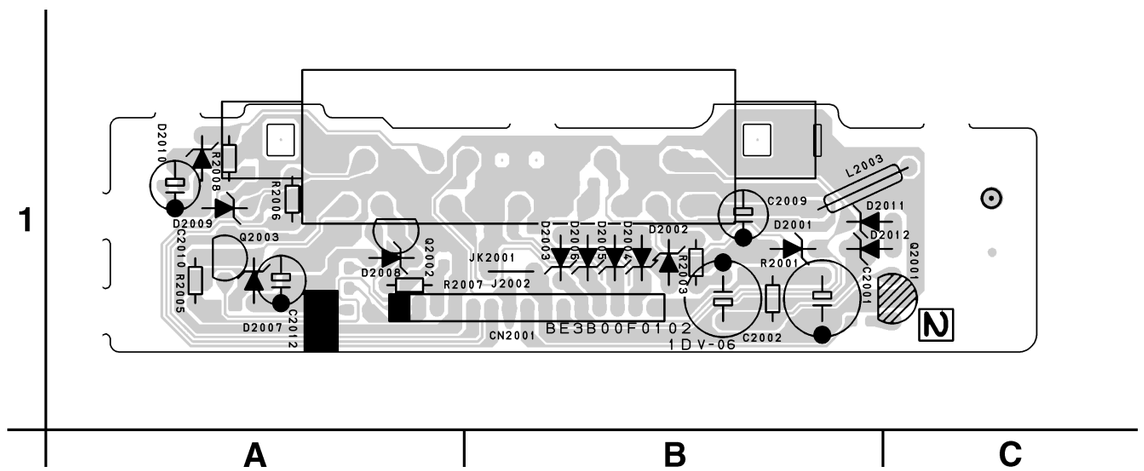

## Front Jack CBA Bottom View



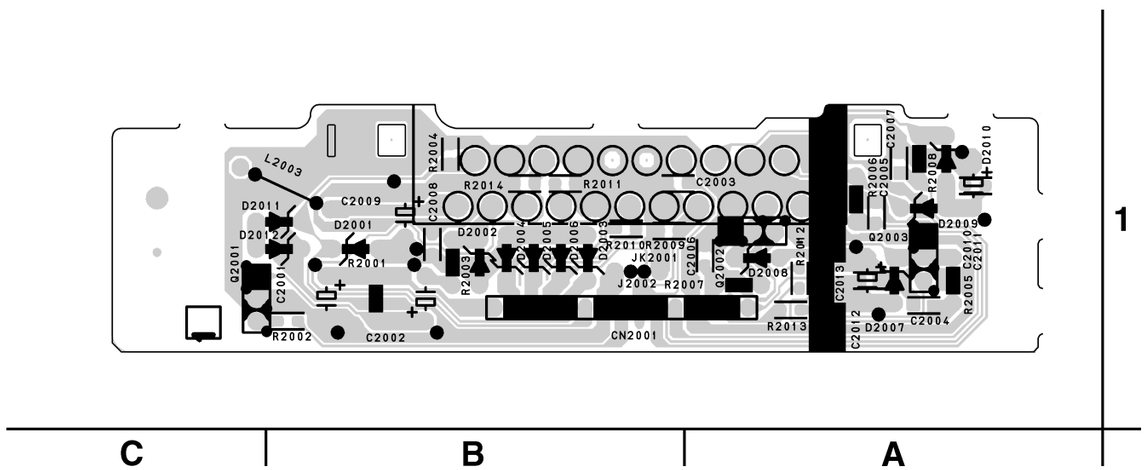

BE3B00F01021B

BE3B00F01021C

## Rear Jack CBA Top View

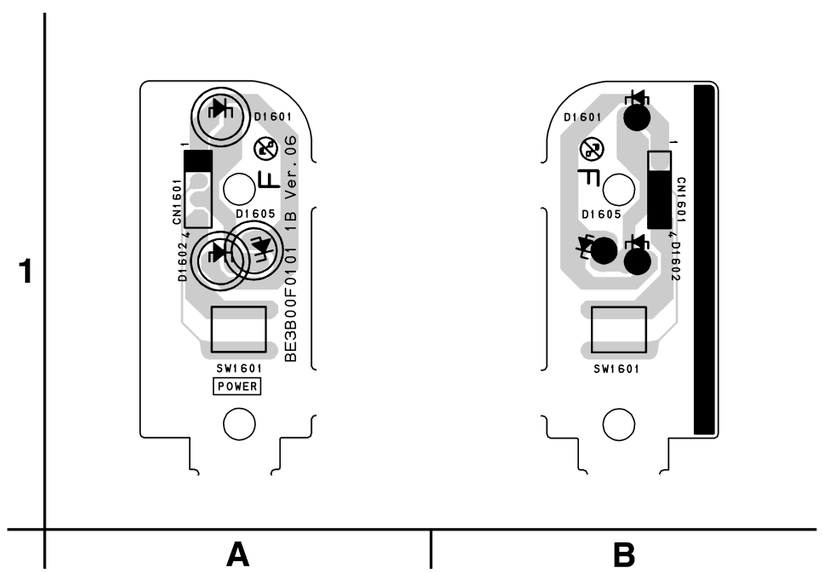



## Rear Jack CBA Bottom View




## Power SW CBA Top View

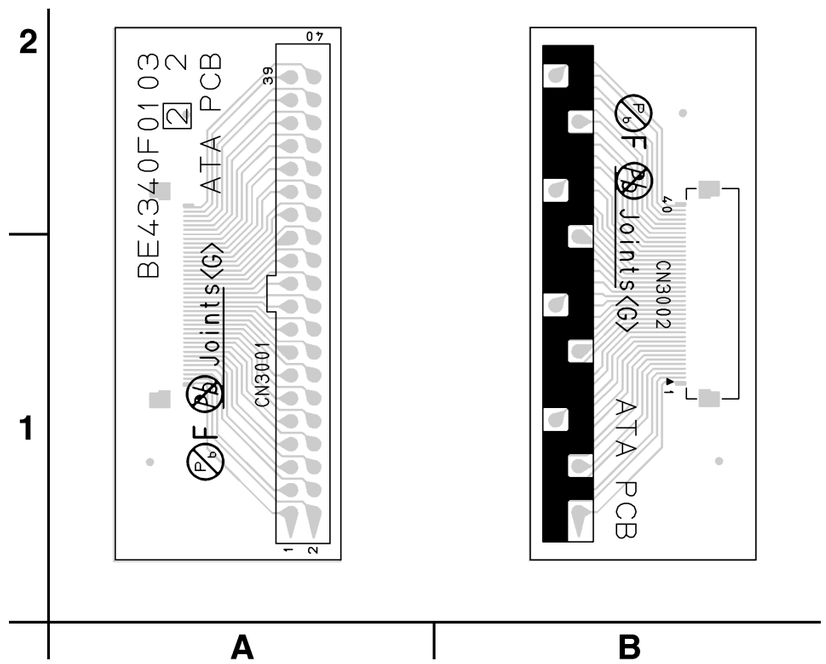
## Power SW CBA Bottom View




BE3B00F01011B

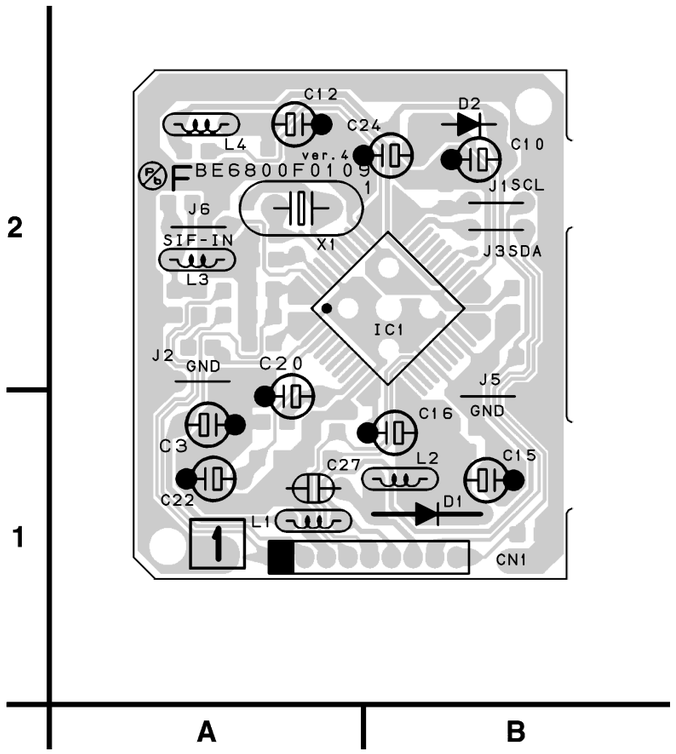
## ATA CBA Top View

## ATA CBA Bottom View

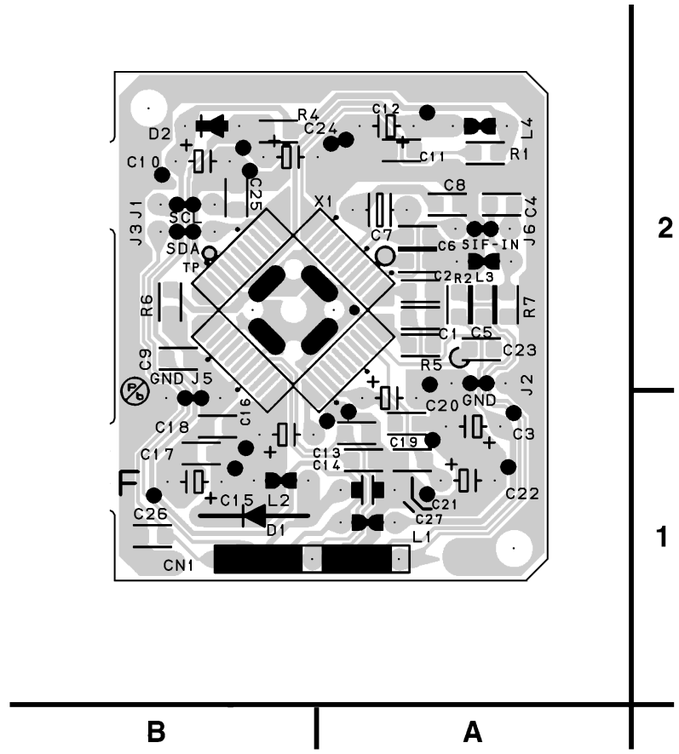



BE4340F01032

## AFV CBA Top View



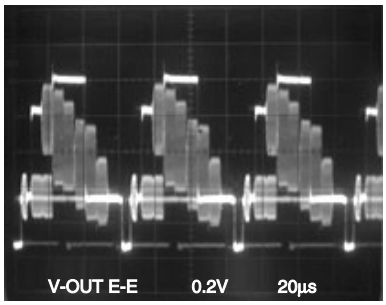

## AFV CBA Bottom View



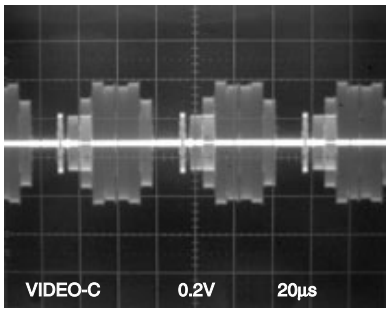
# WAVEFORMS

**NOTE:**
Input: COLOR BAR SIGNAL (WITH 1KHz AUDIO SIGNAL)

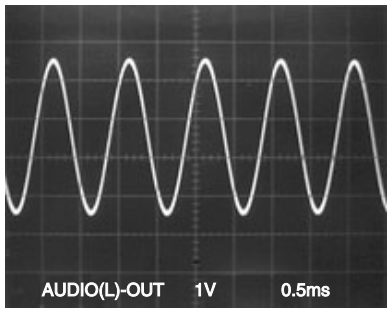
**WF1** Pin 56 of IC301



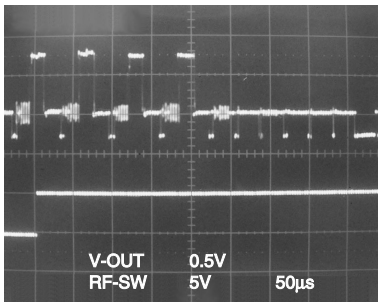

**WF5** Pin 22 of CN1502



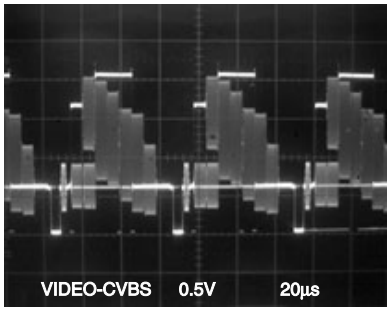

**WF9** Pin 14 of CN1502



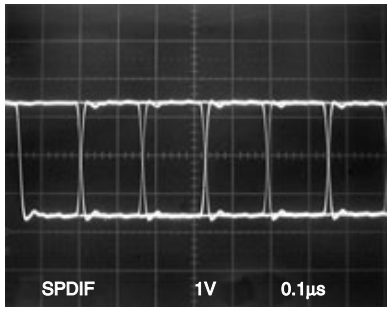

**WF1** UPPER Pin 56 of IC301
**WF2** LOWER TP504



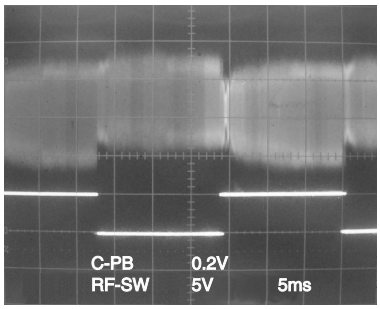

**WF6** Pin 30 of IC1509



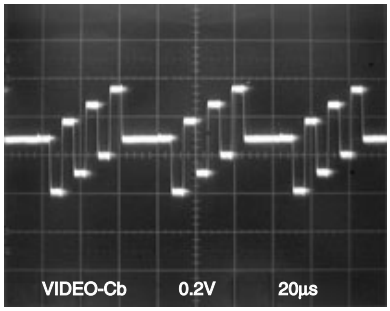

**WF10** Pin 28 of CN1503



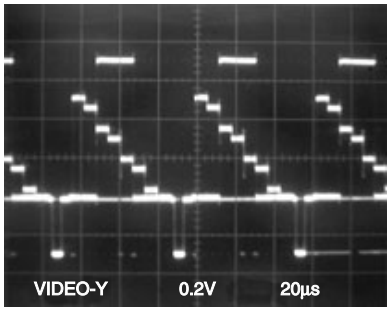

**WF3** UPPER TP301
**WF2** LOWER TP504



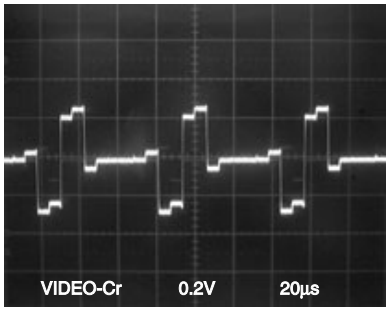

**WF7** Pin 28 of CN1502




**WF4** Pin 24 of CN1502

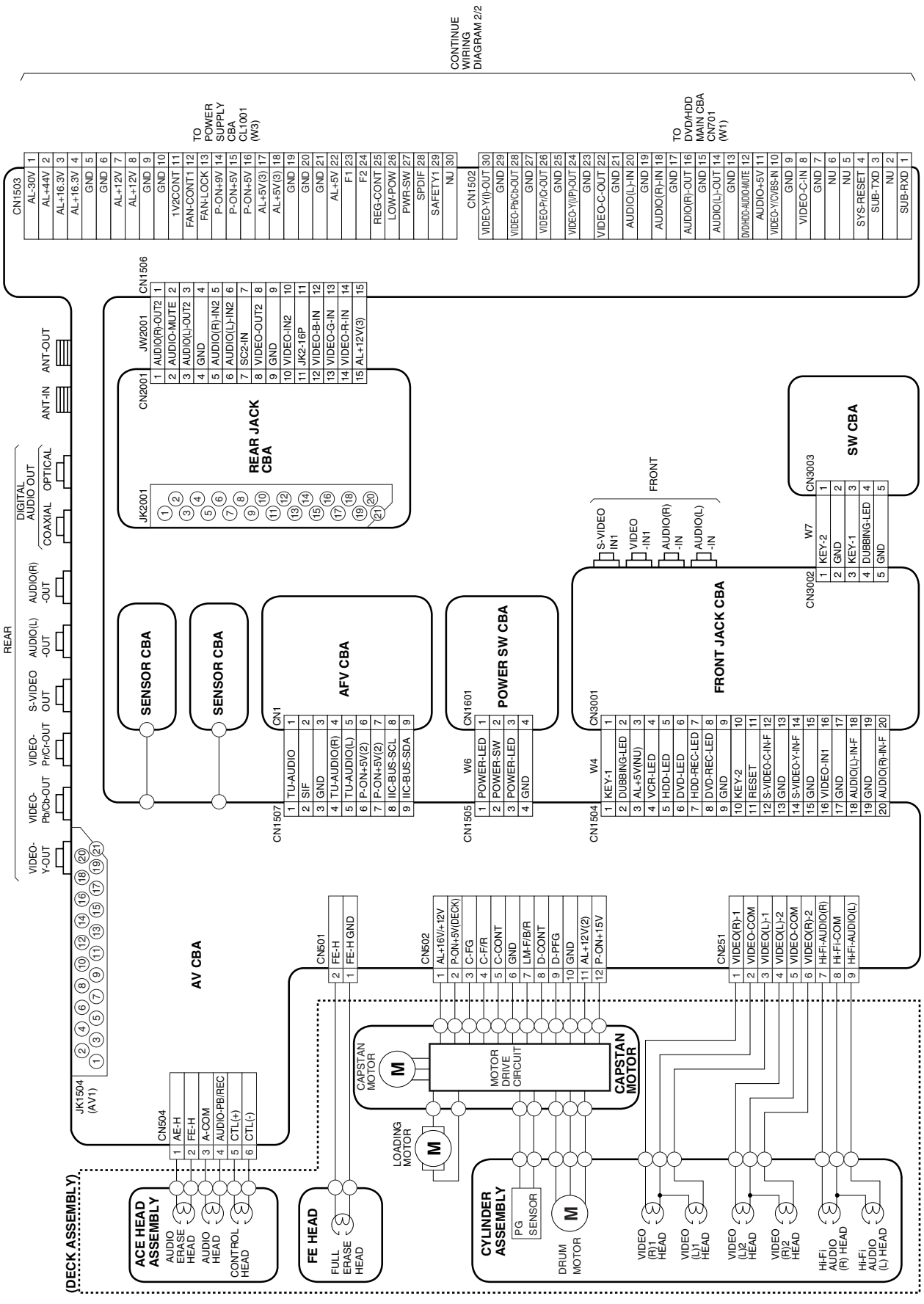



**WF8** Pin 26 of CN1502

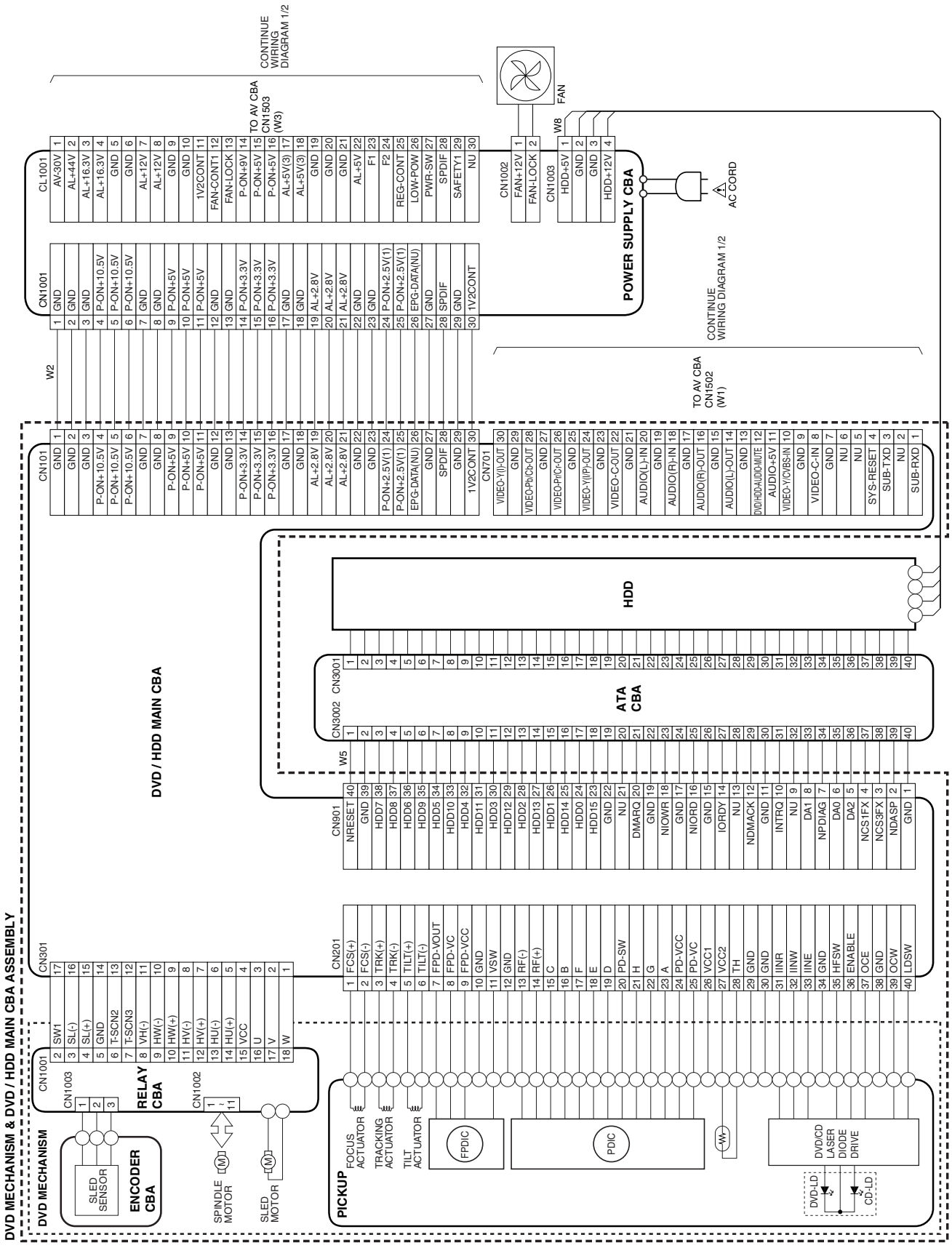


# WIRING DIAGRAMS

## Wiring 1/2 Diagram



# Wiring 2/2 Diagram



# IC PIN FUNCTION DESCRIPTIONS

## < VCR Section >

**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |

### IC501 ( SERVO / SYSTEM CONTROL )

| Pin No. | Mark | IN/ OUT | Signal Name | Function |
|---|---|---|---|---|
| 1 | | - | NU | Not Used |
| 2 | | IN | PG-DELAY | Video Head Switching Pulse Signal Adjusted Voltage |
| 3 | | IN | POW-SAF | P-ON Power Detection Input Signal |
| 4 | | IN | END-S | Tape End Position Detect Signal |
| 5 | | - | NU | Not Used |
| 6 | | IN | V-ENV | Video Envelope Comparator Signal |
| 7 | | IN | KEY-1 | Key Data Input 1 |
| 8 | | - | NU | Not Used |
| 9 | | IN | LD-SW | Deck Mode Position Detector Signal |
| 10 | | IN | ST-S | Tape Start Position Detector Signal |
| 11 | | - | NU | Not Used |
| 12 | | - | NU | Not Used |
| 13 | | OUT | D-V- SYNC | Dummy V-sync Output |
| 14 | | IN | REMOTE | Remote Signal Input |
| 15 | | OUT | C-ROTA | Color Phase Rotary Changeover Signal |
| 16 | | OUT | H-A-SW | Video Head Amp Switching Pulse |
| 17 | | IN | H-A-COMP | Head Amp Comparator Signal |
| 18 | | OUT | RF-SW | Video Head Switching Pulse |
| 19 | | OUT | Hi-Fi-H-SW | HiFi Audio Head Switching Pulse |
| 20 | | - | NU | Not Used |
| 21 | | - | NU | Not Used |
| 22 | | - | NU | Not Used |
| 23 | | - | NU | Not Used |
| 24 | | - | NU | Not Used |
| 25 | | - | NU | Not Used |
| 26 | | OUT | REC-LED | Rec LED Control Signal |
| 27 | | - | NU | Not Used |
| 28 | | - | NU | Not Used |
| 29 | | - | NU | Not Used |
| 30 | | - | NU | Not Used |
| 31 | | IN | REC-SAF-SW | Recording Safety SW Detect (With Record tab="L"/ With out Record tab="H") |
| 32 | | IN | A-MODE | Hi-Fi Tape Detection Signal |
| 33 | | OUT | D-REC-H | Delayed Record Signal |
| 34 | | IN | RESET | Micro Controller Reset Signal |
| 35 | | - | NU | Ground |
| 36 | | - | NU | Not Used |
| 37 | | - | Vcc | Always +5V with AC Plug Connected |
| 38 | | IN | Xin | Main Clock Input |
| 39 | | OUT | Xout | Main Clock Output |
| 40 | | - | Vss | Ground |
| 41 | | - | NU | Not Used |
| 42 | | - | NU | Not Used |
| 43 | | IN | CLKSEL | Clock Select |
| 44 | | IN | OSCin | Clock Input for letter size |
| 45 | | OUT | OSCout | Clock Output for letter size |
| 46 | | - | NU | Ground |
| 47 | | IN | LP | LP |
| 48 | | IN | FSC-IN [4.43MHz] | 4.43MHz Clock Input |
| 49 | | - | OSDVss | Ground |
| 50 | | IN | OSD-V-IN | OSD Video Signal Input |
| 51 | | - | NU | Ground |
| 52 | | OUT | OSD-V-OUT | OSD Video Signal Output |
| 53 | | - | OSDVcc | +5V Power Supply (OSD) |
| 54 | | - | HLF | LPF Connected Terminal (Slicer) |
| 55 | C | IN | COLOR-IN | SECAM or MESECAM Chroma Video Input Signal at Super Impose |
| | A,B | - | NU | Not Used |
| 56 | | - | NU | Not Used |
| 57 | | - | NU | Ground |
| 58 | | IN | C-SYNC | Composite Synchronized Pulse |
| 59 | | - | NU | Not Used |

| Pin No. | Mark | IN/ OUT | Signal Name | Function |
|---|---|---|---|---|
| 60 | | OUT | C-POW-SW | Capstan Power Switching Signal |
| 61 | | - | NU | Not Used |
| 62 | | - | NU | Not Used |
| 63 | | - | NU | Not Used |
| 64 | | IN | S-CS | Sub Micro Controller Interface Chip Select Signal Input |
| 65 | | OUT | S-DATA-OUT | Communication of Data from VCR Micro Controller |
| 66 | | IN | S-DATA-IN | Communication of Data to VCR Micro Controller |
| 67 | | OUT | S-CLOCK | Communication of Clock with VCR Micro Controller |
| 68 | | OUT | DRV-DATA | VFD Driver IC Control Data |
| 69 | | OUT | DRV-STB | VFD Driver IC Chip Select Signal |
| 70 | | OUT | DRV-CLK | VFD Driver IC Control Clock |
| 71 | | OUT | IIC-BUS SCL | IIC BUS Serial Clock |
| 72 | | IN/ OUT | IIC-BUS SDA | IIC BUS Serial Data |
| 73 | | - | NU | Not Used |
| 74 | | - | NU | Not Used |
| 75 | | OUT | P-ON-H | Power On Signal to High |
| 76 | | OUT | C-CONT | Capstan Motor Control Signal |
| 77 | | OUT | D-CONT | Drum Motor Control Signal |
| 78 | | OUT | C-F/R | Capstan Motor FWD/ REV Control Signal (FWD="L"/REV="H") |
| 79 | | IN | S-REEL | Supply Reel Rotation Signal |
| 80 | | IN | T-REEL | Take Up Reel Rotation Signal |
| 81 | | OUT | LM-F/B/R | Loading Motor Control Signal |
| 82 | | - | NU | Not Used |
| 83 | | OUT | VCR-AUDIO-MUTE | Audio Mute Control Signal (Mute = "H") |
| 84 | | - | NU | Not Used |
| 85 | | - | NU | Not Used |
| 86 | | - | NU | Not Used |
| 87 | | IN | C-FG | Capstan Motor Rotation Detection Pulse |
| 88 | | - | AMPVss | Ground |

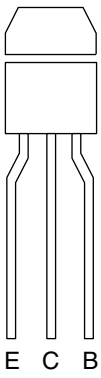
| Pin No. | Mark | IN/ OUT | Signal Name | Function |
|---|---|---|---|---|
| 89 | | - | NU | Not Used |
| 90 | | IN | D-PFG | Drum Motor Phase/ Frequency Generator |
| 91 | | - | AMPVREF out | V-Ref for CTL AMP |
| 92 | | - | AMPVREF in | V-Ref for CTL AMP |
| 93 | | - | P80/C | P80/C Terminal |
| 94 | | IN/ OUT | CTL (-) | Playback/Record Control Signal (-) |
| 95 | | IN/ OUT | CTL (+) | Playback/Record Control Signal (+) |
| 96 | | - | AMPC | CTL AMP Connected Terminal |
| 97 | | - | CTL | To Monitor for CTL AMP Output |
| 98 | | - | AMPVcc | Always +5V with AC Plug Connected |
| 99 | | - | AVcc | Always +5V with AC Plug Connected |
| 100 | | - | NU | Not Used |

## IC612 ( VFD DRIVER )

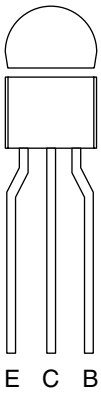
| Pin No. | IN/ OUT | Signal Name | Function |
|---|---|---|---|
| 1 | IN | CLK | Clock Input |
| 2 | IN | STB | Serial Interface Strobe |
| 3 | - | NU | Not Used |
| 4 | - | NU | Ground |
| 5 | - | VSS | Ground |
| 6 | - | VDD | Power Supply |
| 7 | OUT | SG1 | Segment Output |
| 8 | OUT | SG2 | |
| 9 | OUT | SG3 | |
| 10 | OUT | SG4 | |
| 11 | OUT | SG5 | |
| 12 | OUT | SG6 | |
| 13 | OUT | SG7 | |
| 14 | OUT | SG8 | |
| 15 | - | VEE | Pull Down Level |
| 16 | OUT | SG9 | Segment Output |
| 17 | OUT | GR7 | Grid Output |
| 18 | | GR6 | |
| 19 | | GR5 | |
| 20 | | GR4 | |
| 21 | | GR3 | |
| 22 | | GR2 | |
| 23 | | GR1 | |
| 24 | - | VDD | Power Supply |
| 25 | - | VSS | Ground |
| 26 | IN | OSC | Oscillator Input |
| 27 | - | NU | Not Used |
| 28 | IN | DIN | Serial Data Input |

# LEAD IDENTIFICATIONS

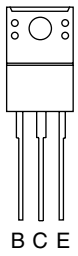
KRA103M-AT/P
KRA104M-AT/P
KRC103M-AT/P
KRC106M-AT/P
KTA1267(GR,Y)-AT/P
RN1206
RN2203(TE4 F T)



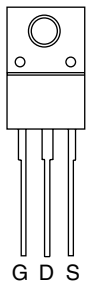

2SC2120-Y(TE2 F T)
KTA-1266-GR-AT/P
KTC3203-Y-AT/P
KTC3198-(GR,Y)-AT/P
KTC3199-(BL,GR,Y)-AT/P
KTC3266-GR-AT/P
KTC3266-GR(TE2 F)
2SA1015-GR(TE2 F T)
2SC1815-(BL,GR,Y)(TE2 F T)



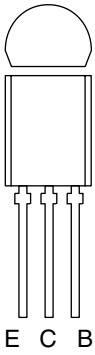

KTC2026-Y/P



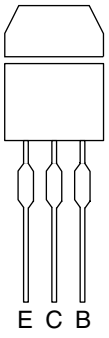

2SK3798(Q)



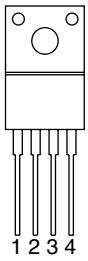

2SA1020-Y(TE6 F M)



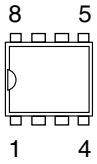

KTA1281Y-AT/P



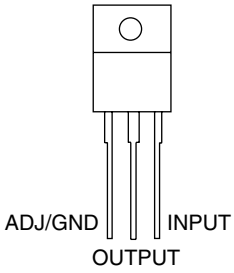

PQ070XF01SZH
PQ070XFC1SZF



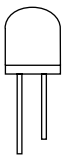

KIA4558P/P
UTC4580
UTC4588
RC4580IP



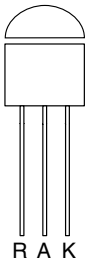

TLV1117I TO-220
UTC1117TA
LD1117V



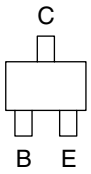

PT204-6B-12
MID-32A22F



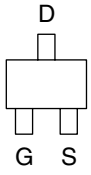

KIA431-AT/P



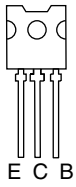

KRC103S-RTK/P
KTC3875S-Y-RTK/P



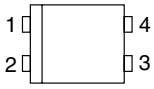

SSM3K15F(TE85L F)
KTK5132S-RTK/P




KTB1151-Y-U/P

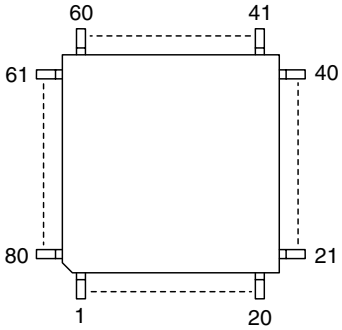



EL817A
EL817B
PS2561A-1(Q,W)

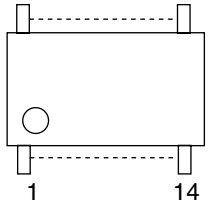



1: Anode
2: Cathode
3: Emitter
4: Collector

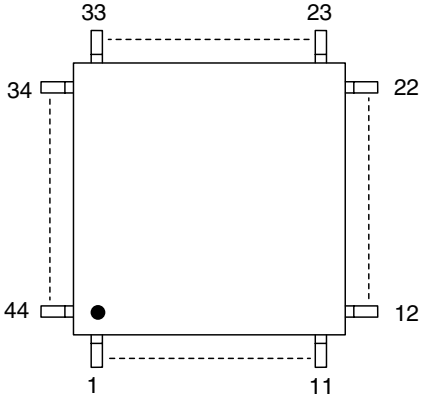
LA72648M-MPB-E



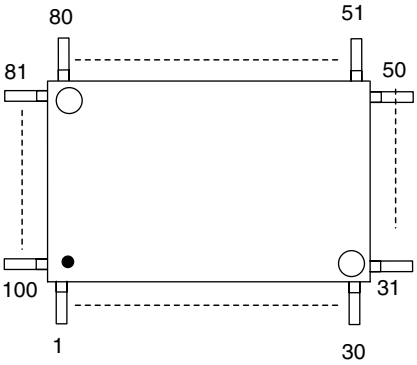

PT6313-S-TP(L)
SC16313G

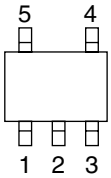



MSP3407G-QG-B8-V3
MSP3417G-QG-B8-V3



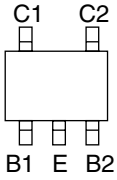

HA118326APF-E
LA71750EM-MPB-E
M3776AMCH-AG7GP
M306H7MC-C23FP#U0




R3112N211A-TR-F
BU4221G-TR
PST3621NR

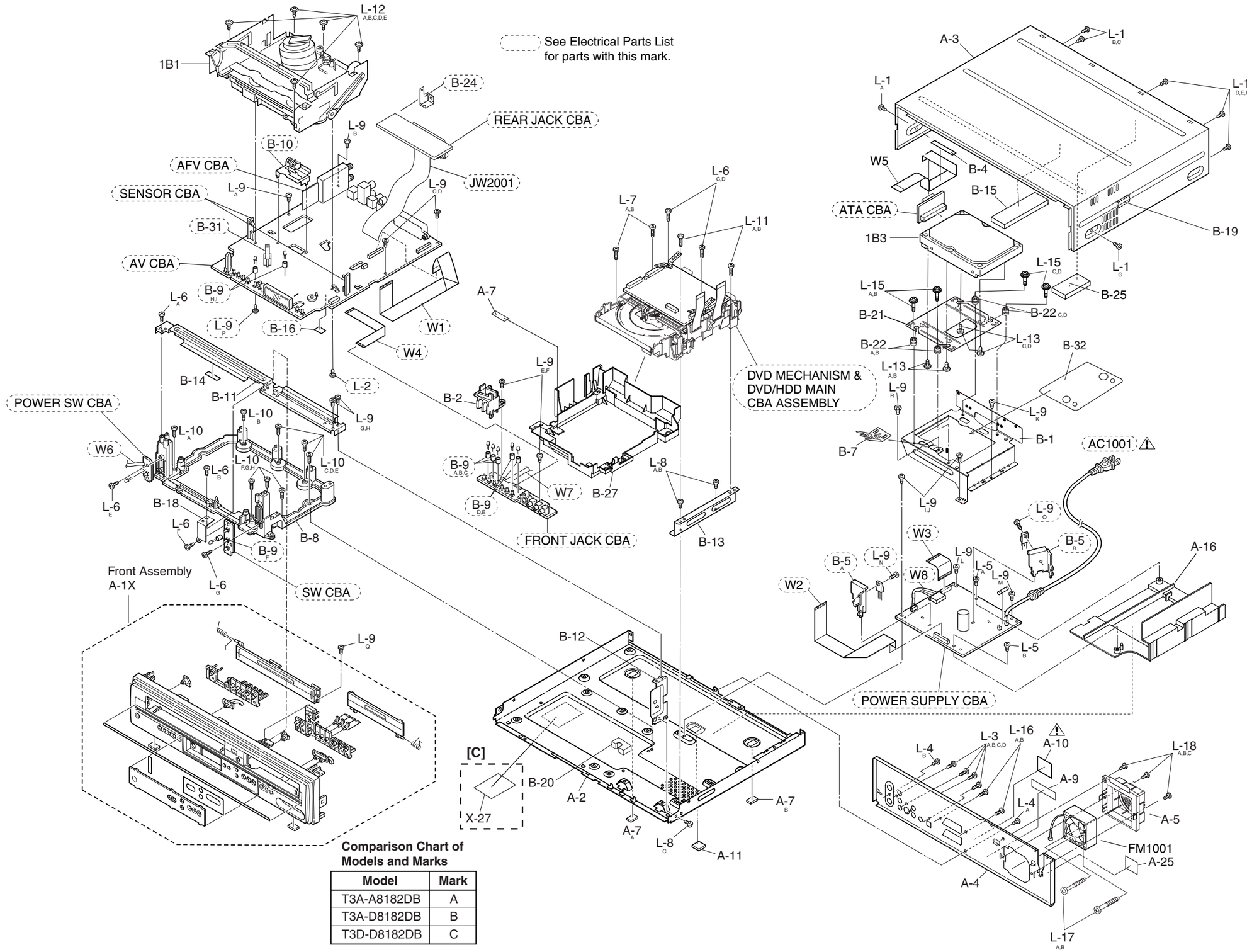
RN1511(TE85R.F)
FMG4A T148




**Note:**
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

# EXPLODED VIEWS

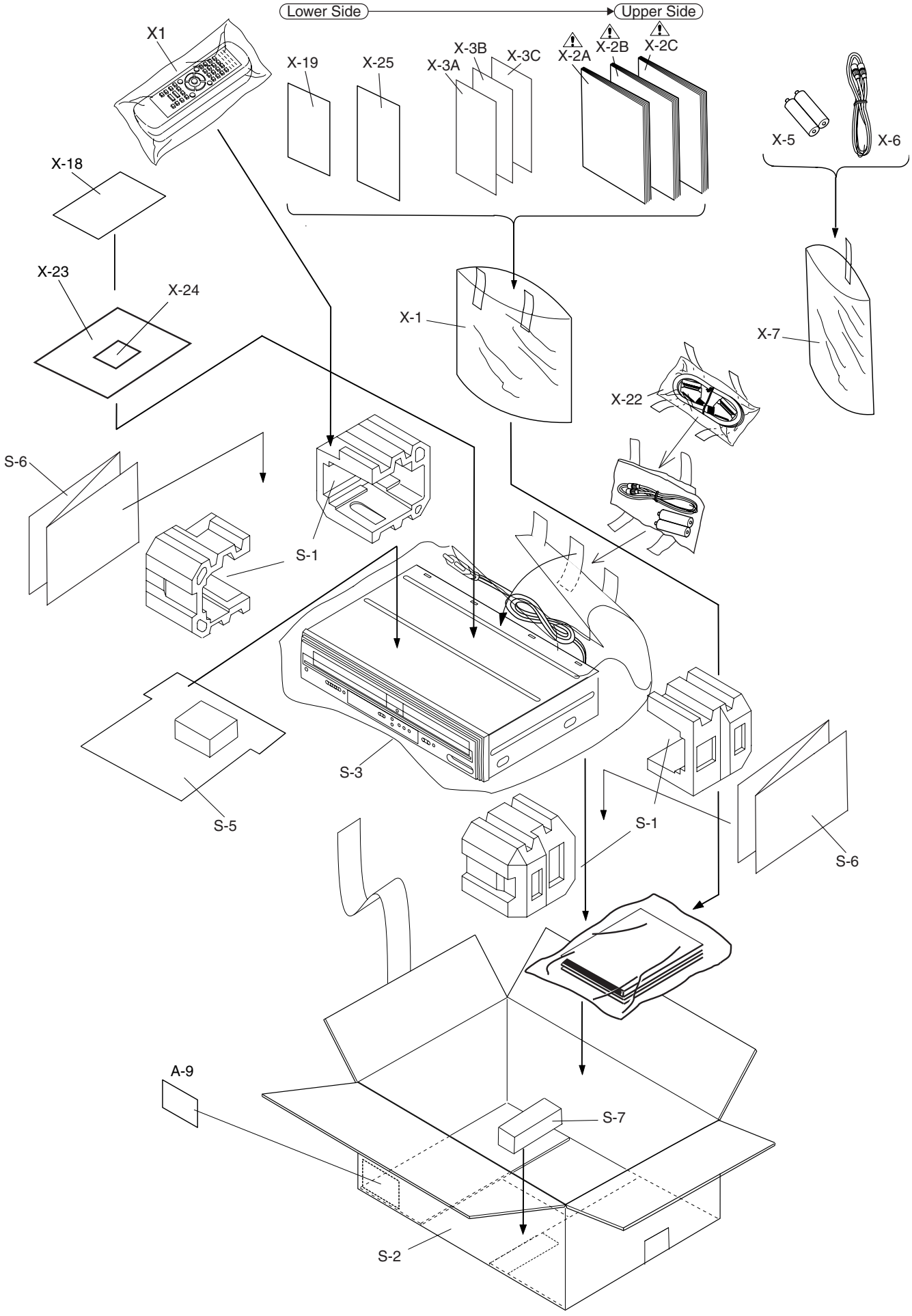
## Cabinet



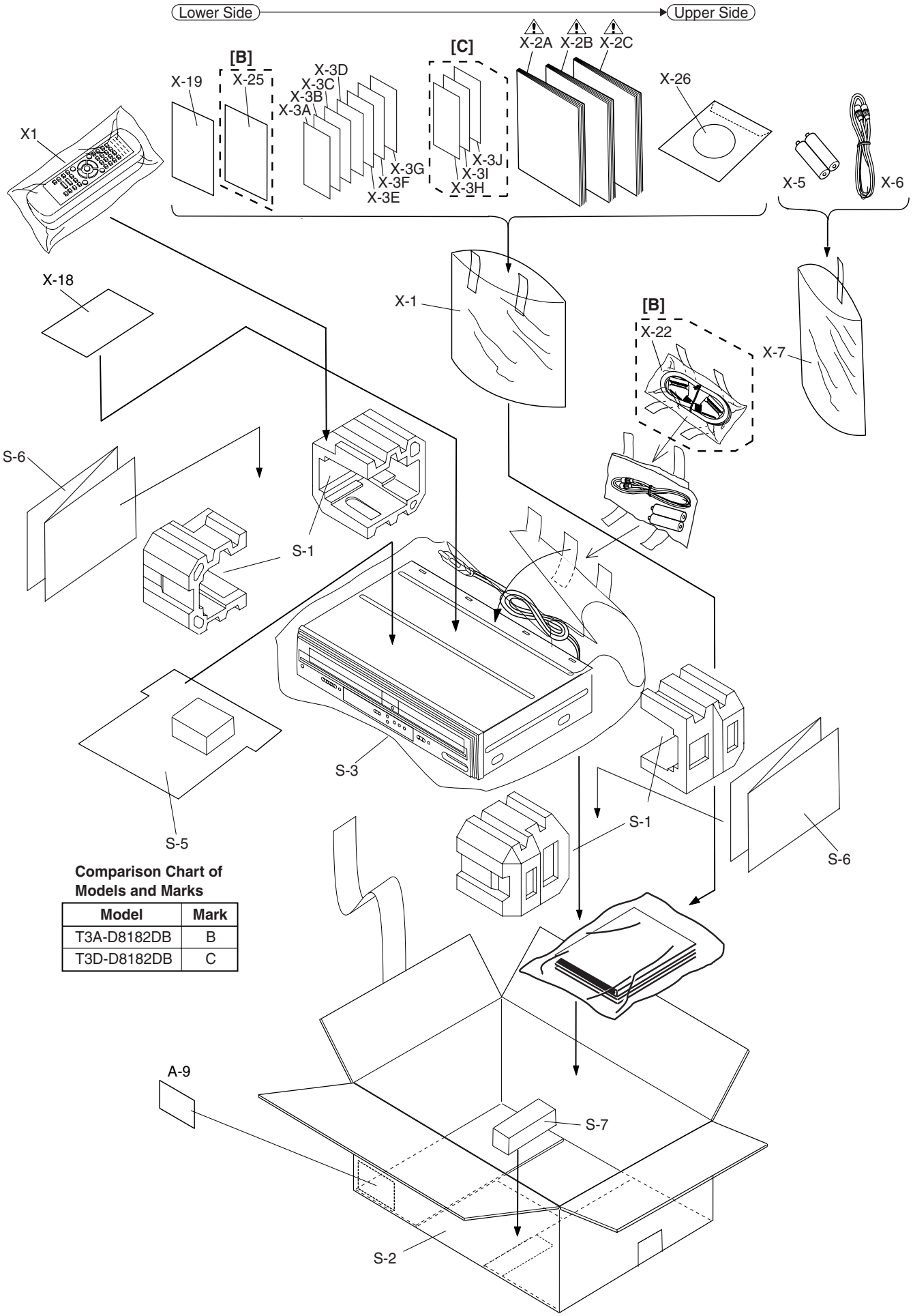

**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |

## Packing [T3A-A8182DB]



# Packing [T3A-D8182DB/T3D-D8182DB]




**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| T3A-D8182DB | B |
| T3D-D8182DB | C |

# MECHANICAL PARTS LIST

**PRODUCT SAFETY NOTE:** Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

**NOTE:** Parts that are not assigned part numbers (---------) are not available.

### Comparison Chart of Models and Marks

| Model | Mark |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| A-1X | | FRONT ASSEMBLY E3B40ED | 1VM222930 |
| A-2 | | MAIN CHASSIS E4340UD | 1VM120193P |
| A-3 | | TOP COVER(BLACK) E439AED | 1VM323139 |
| A-4 | | REAR PANEL E3B40ED | 1VM222916 |
| A-5 | | FAN HOLDER ASSEMBLY E43A0JD | 1VM425152 |
| A-7 | | FOOT K7010UA | 0VM403657A |
| A-7A | | FOOT E6500UD | 0VM416122 |
| A-7B | | FOOT E6500UD | 0VM416122 |
| A-9 | | BARCODE LABEL UNFIGURE E9704ED | --------- |
| A-9 | A | BARCODE LABEL E3B40ED | --------- |
| A-9 | B | BARCODE LABEL E3B43ED | --------- |
| A-9 | C | BARCODE LABEL E3B44ED | --------- |
| A-10⚠ | A | RATING LABEL E3B40ED | --------- |
| A-10⚠ | B | RATING LABEL E3B43ED | --------- |
| A-10⚠ | C | RATING LABEL E3B44ED | --------- |
| A-11 | | CENTER CUSHION E4350JD | 1VM422956 |
| A-16 | | POWER HOLDER E434AED | 1VM322233 |
| A-25 | | VOID LABEL E3B40ED | --------- |
| 1B1 | | DECK ASSEMBLY CZD014/VM25E0 | N25E1FL |
| 1B3 | | HARD DISK DRIVE WD2500BB-55RDA0 | UHDD250WG001 |
| B-1 | | HDD BRACKET E3A50JD | 1VM222703E |
| B-2 | | MODE LENS HOLDER E4340UD | 1VM422056 |
| B-4 | | TAPE HIMELON(HDD) E4340UD | 1VM422058 |
| B-7 | | EARTH PLATE E4321JD DV-HD300 | 0VM414677A |
| B-8 | | DECK PEDESTAL E9600UD | 1VM120055G |
| B-11 | | FRONT BRACKET E9400UD | 0VM204534C |
| B-12 | | FRONT BRACKET R E9400UD | 0VM416269A |
| B-13 | | BRACKET R(T3) E3A50JD | 1VM424826 |
| B-14 | | TAPE HIMELON H9206JD | 0VM413956 |
| B-15 | | RUBBER CUSHION(TOP COVER) E4340UD | 1VM422515 |
| B-18 | | FRONT SUPPORT E4340UD | 1VM422518 |
| B-19 | | SIDE CUSHION(TOP COVER) E4340UD | 1VM422517 |
| B-20 | | RUBBER CUSHION (MAIN CHASSIS) E4340UD | 1VM422534B |
| B-21 | | HDD SUPPORT E3A50JD | 1VM424843 |
| B-22A | | HDD RUBBER E4350JD | 1VM422863 |
| B-22B | | HDD RUBBER E4350JD | 1VM422863 |
| B-22C | | HDD RUBBER E4350JD | 1VM422863 |
| B-22D | | HDD RUBBER E4350JD | 1VM422863 |
| B-25 | | CUSHION RUBBER E9400UD | 0VM416664C |
| B-27 | | DUST COVER(T3) E3B90ED | 1VM121092 |
| B-32 | | INSULATION SHEET E3B90ED | 1VM425218 |
| FM1001 | | BRUSH LESS COOLING FAN 2D65BK100090 | MMEZR12XNR02 |
| L-1A | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-1B | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-1C | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-1D | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-1E | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-1F | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-1G | | SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI | GBHC3050 |
| L-3A | | SCREW B-TIGHT M3X8 BIND HEAD+ | GBHB3080 |
| L-3B | | SCREW B-TIGHT M3X8 BIND HEAD+ | GBHB3080 |
| L-3C | | SCREW B-TIGHT M3X8 BIND HEAD+ | GBHB3080 |
| L-3D | | SCREW B-TIGHT M3X8 BIND HEAD+ | GBHB3080 |
| L-4A | | SCREW S-TIGHT M3*5 BIND+ 3*5 BIND+ | GBHS3050 |
| L-4B | | SCREW S-TIGHT M3*5 BIND+ 3*5 BIND+ | GBHS3050 |
| L-5A | | SCREW P-TIGHT M3X6 BIND HEAD+ | GBJP3060 |
| L-5B | | SCREW P-TIGHT M3X6 BIND HEAD+ | GBJP3060 |
| L-6A | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-6B | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-6C | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-6D | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-6E | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-6F | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-6G | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBJP3080 |
| L-7A | | SCREW P-TIGHT 3X14 BIND HEAD + | GBJP3140 |
| L-7B | | SCREW P-TIGHT 3X14 BIND HEAD + | GBJP3140 |
| L-8A | | SCREW M3X5 HEAD+ BIND S-TIGHT | GBJS3050 |
| L-8B | | SCREW M3X5 HEAD+ BIND S-TIGHT | GBJS3050 |
| L-8C | | SCREW M3X5 HEAD+ BIND S-TIGHT | GBJS3050 |
| L-9A | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9B | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9C | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9D | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9E | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9F | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9G | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9H | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9I | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9J | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9K | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9L | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9M | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9Q | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9R | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-10A | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10B | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10C | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10D | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10E | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10F | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10G | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-10H | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBJS3080 |
| L-11A | | SCREW S-TIGHT M3X10 BIND HEAD+ | GBJS3100 |
| L-11B | | SCREW S-TIGHT M3X10 BIND HEAD+ | GBJS3100 |
| L-12A | | SCREW P-TIGHT M3*10 WASHERHEAD+ | GCJP3100 |
| L-12B | | SCREW P-TIGHT M3*10 WASHERHEAD+ | GCJP3100 |
| L-12C | | SCREW P-TIGHT M3*10 WASHERHEAD+ | GCJP3100 |
| L-12D | | SCREW P-TIGHT M3*10 WASHERHEAD+ | GCJP3100 |
| L-12E | | SCREW P-TIGHT M3*10 WASHERHEAD+ | GCJP3100 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| L-13A | | INCH SCREW 3.4X5 + or | SAC3T050 |
| | | INCH SCREW 3.4X5 + | SAF3T050 |
| L-13B | | INCH SCREW 3.4X5 + or | SAC3T050 |
| | | INCH SCREW 3.4X5 + | SAF3T050 |
| L-13C | | INCH SCREW 3.4X5 + or | SAC3T050 |
| | | INCH SCREW 3.4X5 + | SAF3T050 |
| L-13D | | INCH SCREW 3.4X5 + or | SAC3T050 |
| | | INCH SCREW 3.4X5 + | SAF3T050 |
| L-15A | | HDD SCREW E4350JD | 1VM422864 |
| L-15B | | HDD SCREW E4350JD | 1VM422864 |
| L-15C | | HDD SCREW E4350JD | 1VM422864 |
| L-15D | | HDD SCREW E4350JD | 1VM422864 |
| L-16A | | SCREW P-TIGHT M3X8 BIND HEAD+ BLK | GBHP3080 |
| L-16B | | SCREW P-TIGHT M3X8 BIND HEAD+ BLK | GBHP3080 |
| L-17A | | SCREW P-TIGHT M3X30 BIND HEAD+ | GBJP3300 |
| L-17B | | SCREW P-TIGHT M3X30 BIND HEAD+ | GBJP3300 |
| L-18A | | S-TIGHT SCREW M3X6 BIND HEAD+BLACK | GBHS3060 |
| L-18B | | S-TIGHT SCREW M3X6 BIND HEAD+BLACK | GBHS3060 |
| L-18C | | S-TIGHT SCREW M3X6 BIND HEAD+BLACK | GBHS3060 |
| W5 | | FFC ATA-MAIN 40P(THIN PLATING) 40PIN/TL345MM | WX1E3B00-101 |
| **ACCESSORIES** | | | |
| X1 | | REMOTE CONTROL UNIT NB331ED | NB331ED |
| X-1 | | ACCESSORY BAG E4340UD | 1VM422755 |
| X-2A⚠ | A | OWNERS MANUAL(DE) E3B40ED | 1VMN23571 |
| X-2A⚠ | B | OWNERS MANUAL(SV) E3B43ED | 1VMN23598 |
| X-2A⚠ | C | OWNERS MANUAL(EN) E3B44ED | 1VMN23609 |
| X-2B⚠ | A | OWNERS MANUAL(IT) E3B40ED | 1VMN23572 |
| X-2B⚠ | B | OWNERS MANUAL(ES) E3B43ED | 1VMN23599 |
| X-2B⚠ | C | OWNERS MANUAL(DE) E3B44ED | 1VMN23610 |
| X-2C⚠ | A | OWNERS MANUAL(EL) E3B40ED | 1VMN23573 |
| X-2C⚠ | B | OWNERS MANUAL(DE) E3B43ED | 1VMN23600 |
| X-2C⚠ | C | OWNERS MANUAL(PL) E3B44ED | 1VMN23611 |
| X-3A | A | QUICK SETUP GUIDE(DE) E3B40ED | 1VMN23574 |
| X-3A | B | QUICK SETUP GUIDE(SV) E3B43ED | 1VMN23601 |
| X-3A | C | QUICK SETUP GUIDE(EN) E3B44ED | 1VMN23613 |
| X-3B | A | QUICK SETUP GUIDE(IT) E3B40ED | 1VMN23575 |
| X-3B | B | QUICK SETUP GUIDE(ES) E3B43ED | 1VMN23602 |
| X-3B | C | QUICK SETUP GUIDE(DE) E3B44ED | 1VMN23614 |
| X-3C | A | QUICK SETUP GUIDE(EL) E3B40ED | 1VMN23576 |
| X-3C | B | QUICK SETUP GUIDE(DE) E3B43ED | 1VMN23603 |
| X-3C | C | QUICK SETUP GUIDE(PL) E3B44ED | 1VMN23615 |
| X-3D | B | QUICK SETUP GUIDE(NO) E3B43ED | 1VMN23604 |
| X-3D | C | QUICK SETUP GUIDE(CS) E3B44ED | 1VMN23616 |
| X-3E | B | QUICK SETUP GUIDE(FI) E3B43ED | 1VMN23605 |
| X-3E | C | QUICK SETUP GUIDE(HU) E3B44ED | 1VMN23617 |
| X-3F | B | QUICK SETUP GUIDE(PT) E3B43ED | 1VMN23606 |
| X-3F | C | QUICK SETUP GUIDE(SK) E3B44ED | 1VMN23618 |
| X-3G | B | QUICK SETUP GUIDE(DA) E3B43ED | 1VMN23607 |
| X-3G | C | QUICK SETUP GUIDE(RU) E3B44ED | 1VMN23619 |
| X-3H | C | QUICK SETUP GUIDE(AR) E3B44ED | 1VMN23620 |
| X-3I | C | QUICK SETUP GUIDE(RO) E3B44ED | 1VMN23630 |
| X-3J | C | QUICK SETUP GUIDE(BG) E3B44ED | 1VMN23631 |
| X-5 | | DRY BATTERY R6P/2S or | XB0M451T0001 |
| | | DRY BATTERY ES-GR6M-C | XB0M571GLP01 |
| X-6 | | RF CORD PAL 1.2M or | WPZ0122LG001 |
| | | RF CABLE CC1001020012010 | WPZ0122LW001 |
| X-7 | | BAG REMOCON N9411UD | 0VM412317 |
| X-18 | A,B | HANDBILL E8G00ED | 1VMN23494 |
| X-18 | C | HANDBILL E8G04ED | 1VMN23558 |
| X-19 | | POST CARD E8G00ED | 1VMN23493 |
| X-22 | A,B | WIRE ASSEMBLY SCART CABLE CE1013020121410 | WX1E8G00-111 |
| X-23 | A | WARRANTY CARD E3B40ED | 1VMN23577 |
| X-24 | A | LABEL SERIAL NO. H9500ED | ---------- |
| X-25 | A,B | SERVICE CENTER LIST HC2C0ED | 0VMN03071D |
| X-26 | B | OWNERS MANUAL CD-ROM E3B43ED | 1VM323772 |
| X-26 | C | OWNERS MANUAL CD-ROM E3B44ED | 1VM323773 |
| X-27 | C | WARNING LABEL HG249ED | ---------- |
| **PACKING** | | | |
| S-1 | | STYROFOAM E434AED | 1VM120713C |
| S-2 | A | GIFT BOX CARTON E3B40ED | 1VM323819 |
| S-2 | B | GIFT BOX CARTON E3B43ED | 1VM323840 |
| S-2 | C | GIFT BOX CARTON E3B44ED | 1VM323841 |
| S-3 | | SET BAG E7708UA | 0DM400731D |
| S-5 | | TOP PAD E434AED | 1VM423574 |
| S-6 | | SIDE PAD E43A0JD | 1VM425081 |
| S-7 | | BOTTOM PAD E434AED | 1VM423575 |

# ELECTRICAL PARTS LIST

**PRODUCT SAFETY NOTE:** Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

**NOTES:**

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

**Comparison Chart of Models and Marks**

| Model | Mark |
|---|---|
| T3A-A8182DB | A |
| T3A-D8182DB | B |
| T3D-D8182DB | C |

## DVD MECHANISM & DVD/HDD MAIN CBA ASSEMBLY

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | A,B | DVD MECHANISM & DVD/HDD MAIN CBA ASSEMBLY | N78GHCEN |
| | C | DVD MECHANISM & DVD/HDD MAIN CBA ASSEMBLY | N78GGCEN |

## AV ASSEMBLY

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | A<br>B<br>C | AV ASSEMBLY<br>AV ASSEMBLY<br>AV ASSEMBLY<br>Consists of the following: | 1VSA15753<br>1VSA15756<br>1VSA15760 |
| | | AV CBA (AV PCB A)<br>POWER SW CBA (AV PCB B)<br>SENSOR CBA | ---------<br>---------<br>1VSA13519 |

## AV CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | AV CBA (AV PCB A)<br>Consists of the following: | --------- |
| | | **CAPACITORS** | |
| C251 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMAVSL100 |
| C252 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C253 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C254 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C301 | | CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V | CHD1JK30B223 |
| C302 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C303 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C305 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C306 | | CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V | CHD1JK30B473 |
| C307 | | CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V | CHD1JK30B223 |
| C308 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C311 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C312 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMAVSL100 |
| C313 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C314 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V | CHD1JK30B103 |
| C315 | | CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V | CHD1JK30B473 |
| C316 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C317 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C318 | C | CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V | CHD1JK30B223 |
| C324 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V | CHD1JK30B103 |
| C325 | | CHIP CERAMIC CAP. B K 8200pF/50V | CHD1JK30B822 |
| C326 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C328 | | ELECTROLYTIC CAP. 47µF/6.3V M H7 | CE0KMAVSL470 |
| C329 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C331 | | ELECTROLYTIC CAP. 220µF/6.3V M H7 | CE0KMAVSL221 |
| C332 | | ELECTROLYTIC CAP. 100µF/16V M H7 | CE1CMAVSL101 |
| C333 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C334 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C335 | | ELECTROLYTIC CAP. 100µF/6.3V H7 | CE0KMAVSL101 |
| C336 | | CHIP CERAMIC CAP. CH J 220pF/50V | CHD1JJ3CH221 |
| C337 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C339 | | CHIP CERAMIC CAP. CH J 120pF/50V | CHD1JJ3CH121 |
| C340 | | ELECTROLYTIC CAP. 1µF/50V M H7 | CE1JMAVSL1R0 |
| C341 | | CHIP CERAMIC CAP.(1608) CH D 10pF/ 50V | CHD1JD3CH100 |
| C342 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C343 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMAVSL100 |
| C344 | | ELECTROLYTIC CAP. 4.7µF/25V M NP H7 | CP1EMAVSB4R7 |
| C345 | | ELECTROLYTIC CAP. 0.47µF/50V M H7 | CE1JMAVSLR47 |
| C346 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C347 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/ 25V | CHD1EK30B104 |
| C349 | | ELECTROLYTIC CAP. 0.47µF/50V M H7 | CE1JMAVSLR47 |
| C350 | | CERAMIC CAP.(AX) F Z 0.1µF/50V | CCA1JZTFZ104 |
| C402 | | FILM CAP.(P) 0.018µF/50V J | CA1J183MS029 |
| C403 | | CERAMIC CAP. B K 470pF/100V | CCD2AKS0B471 |
| C404 | | ELECTROLYTIC CAP. 220µF/6.3V M H7 | CE0KMAVSL221 |
| C405 | | ELECTROLYTIC CAP. 47µF/6.3V M H7 | CE0KMAVSL470 |
| C407 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C408 | | CHIP CERAMIC CAP. B K 1800pF/50V | CHD1JK30B182 |
| C409 | | CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V | CHD1JJ3CH330 |
| C410 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMAVSL100 |
| C411 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V | CHD1JK30B103 |
| C412 | | ELECTROLYTIC CAP. 33µF/6.3V M H7 | CE0KMAVSL330 |
| C413 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C414 | | CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V | CHD1JK30B223 |
| C415 | | ELECTROLYTIC CAP. 4.7µF/25V M H7 | CE1EMAVSL4R7 |
| C416 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C417 | | ELECTROLYTIC CAP. 22µF/6.3V M H7 | CE0KMAVSL220 |
| C418 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V | CHD1JZ30F104 |
| C419 | | CHIP CERAMIC CAP. CH J 220pF/50V | CHD1JJ3CH221 |
| C421 | | ELECTROLYTIC CAP. 47µF/6.3V M H7 | CE0KMAVSL470 |
| C452 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMAVSL100 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| C453 | | ELECTROLYTIC CAP. 22μF/10V M H7 | CE1AMAVSL220 |
| C454 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C455 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C456 | | ELECTROLYTIC CAP. 10μF/16V M H7 | CE1CMAVSL100 |
| C457 | | ELECTROLYTIC CAP. 4.7μF/25V M H7 | CE1EMAVSL4R7 |
| C458 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C461 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C462 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C463 | | ELECTROLYTIC CAP. 22μF/10V M H7 | CE1AMAVSL220 |
| C464 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C465 | | ELECTROLYTIC CAP. 10μF/16V M H7 | CE1CMAVSL100 |
| C466 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C468 | | ELECTROLYTIC CAP. 220μF/6.3V M H7 | CE0KMAVSL221 |
| C469 | | ELECTROLYTIC CAP. 22μF/10V M H7 | CE1AMAVSL220 |
| C470 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C471 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C472 | | ELECTROLYTIC CAP. 4.7μF/25V M H7 | CE1EMAVSL4R7 |
| C473 | | ELECTROLYTIC CAP. 10μF/16V M H7 | CE1CMAVSL100 |
| C474 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C475 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C476 | | ELECTROLYTIC CAP. 22μF/6.3V M H7 | CE0KMAVSL220 |
| C478 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C479 | | ELECTROLYTIC CAP. 10μF/16V M H7 | CE1CMAVSL100 |
| C480 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C481 | | ELECTROLYTIC CAP. 10μF/16V M H7 | CE1CMAVSL100 |
| C482 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C483 | | ELECTROLYTIC CAP. 4.7μF/25V M H7 | CE1EMAVSL4R7 |
| C484 | | ELECTROLYTIC CAP. 4.7μF/25V M H7 | CE1EMAVSL4R7 |
| C485 | | ELECTROLYTIC CAP. 10μF/16V M H7 | CE1CMAVSL100 |
| C486 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C487 | | ELECTROLYTIC CAP. 47μF/16V M H7 | CE1CMAVSL470 |
| C488 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C502 | | CHIP CERAMIC CAP.(1608) B K 0.022μF/ 50V | CHD1JK30B223 |
| C505 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C506 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C507 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C508 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C509 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C510 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C511 | | CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V | CHD1JJ3CH101 |
| C512 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C514 | | CHIP CERAMIC CAP. B K 330pF/50V | CHD1JK30B331 |
| C515 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C516 | | ELECTROLYTIC CAP. 22μF/6.3V M H7 | CE0KMAVSL220 |
| C517 | | CERAMIC CAP.(AX) F Z 0.022μF/25V | CCA1EZTFZ223 |
| C518 | | ELECTROLYTIC CAP. 22μF/6.3V M H7 | CE0KMAVSL220 |
| C519 | | CHIP CERAMIC CAP. CH J 560pF/50V | CHD1JJ3CH561 |
| C521 | | ELECTROLYTIC CAP. 22μF/6.3V M H7 | CE0KMAVSL220 |
| C522 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C524 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C527 | | CERAMIC CAP.(AX) B K 100pF/50V | CCA1JKT0B101 |
| C531 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C533 | | CHIP CERAMIC CAP.(1608) B K 0.047μF/ 50V | CHD1JK30B473 |
| C534 | | ELECTROLYTIC CAP. 47μF/6.3V M H7 | CE0KMAVSL470 |
| C535 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C536 | C | CHIP CERAMIC CAP. CH J 560pF/50V | CHD1JJ3CH561 |
| C538 | | CHIP CERAMIC CAP. CH J 180pF/50V | CHD1JJ3CH181 |
| C539 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C540 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C541 | | CHIP CERAMIC CAP. CH J 18pF/50V | CHD1JJ3CH180 |
| C542 | | CHIP CERAMIC CAP. CH J 18pF/50V | CHD1JJ3CH180 |
| C545 | | CHIP CERAMIC CAP.(1608) CH J 22pF/ 50V | CHD1JJ3CH220 |
| C546 | | CHIP CERAMIC CAP.(1608) CH J 22pF/ 50V | CHD1JJ3CH220 |
| C547 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C548 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C549 | | ELECTROLYTIC CAP. 1μF/50V M H7 | CE1JMAVSL1R0 |
| C550 | | ELECTROLYTIC CAP. 100μF/6.3V H7 | CE0KMAVSL101 |
| C553 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C554 | | ELECTROLYTIC CAP. 100μF/6.3V H7 | CE0KMAVSL101 |
| C555 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/ 25V | CHD1EK30B104 |
| C558 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C611 | | ELECTROLYTIC CAP. 22μF/50V M H7 | CE1JMASSL220 |
| C612 | | CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V | CHD1JK30B472 |
| C614 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C616 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1501 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V | CHD1JK30B104 |
| C1502 | | CHIP CERAMIC CAP. CH J 27pF/50V | CHD1JJ3CH270 |
| C1503 | | CHIP CERAMIC CAP. CH J 27pF/50V | CHD1JJ3CH270 |
| C1504 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| **If C1505 is 0.015μF, then IC1502 is R3112N211A-TR-F or BU4221G-TR.** | | | |
| C1505 | | CHIP CERAMIC CAP.(1608) B K 0.015μF/ 50V | CHD1JK30B153 |
| IC1502 | | VOLTAGE DETECT R3112N211A-TR-F or | QSZBA0TRC026 |
| | | RESET IC BU4221G-TR | QSZBA0TRM102 |
| **If C1505 is 0.15μF, then IC1502 is PST3621NR.** | | | |
| C1505 | | CHIP CERAMIC CAP.(1608) B K 0.15μF/ 25V | CHD1EK30B154 |
| IC1502 | | SYSTEM RESET IC PST3621NR | QSZBA0TMM162 |
| C1506 | | CHIP CERAMIC CAP. CH J 27pF/50V | CHD1JJ3CH270 |
| C1507 | | CHIP CERAMIC CAP. CH J 27pF/50V | CHD1JJ3CH270 |
| C1508 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1509 | | CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V | CHD1JJ3CH101 |
| C1511 | | ELECTROLYTIC CAP. 1000μF/6.3V M | CE0KMASDL102 |
| C1512 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1513 | | CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V | CHD1JJ3CH101 |
| C1515 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1518 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V | CHD1JK30B104 |
| C1519 | | CHIP CERAMIC CAP.(1608) CH J 47pF/ 50V | CHD1JJ3CH470 |
| C1520 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V | CHD1JK30B104 |
| C1521 | | CHIP CERAMIC CAP.(1608) CH J 47pF/ 50V | CHD1JJ3CH470 |
| C1522 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1524 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| C1525 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V | CHD1JK30B104 |
| C1529 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1530 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1531 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1533 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| C1534 | | ELECTROLYTIC CAP. 100μF/6.3V M | CE0KMASDL101 |
| C1536 | | ELECTROLYTIC CAP. 47μF/16V M | CE1CMASDL470 |
| C1537 | | ELECTROLYTIC CAP. 220μF/25V M | CE1EMASDL221 |
| C1538 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/ 50V | CHD1JK30B104 |
| C1539 | | ELECTROLYTIC CAP. 100μF/6.3V M | CE0KMASDL101 |
| C1540 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1541 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1542 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1544 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1545 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1546 | | CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V | CHD1JJ3CH330 |
| C1547 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1548 | | ELECTROLYTIC CAP. 220μF/16V M | CE1CMASDL221 |
| C1549 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1550 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1551 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1554 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1555 | | ELECTROLYTIC CAP. 47μF/16V M | CE1CMASDL470 |
| C1556 | | ELECTROLYTIC CAP. 47μF/16V M | CE1CMASDL470 |
| C1558 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1560 | | ELECTROLYTIC CAP. 100μF/6.3V M | CE0KMASDL101 |
| C1562 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1563 | | ELECTROLYTIC CAP. 330μF/6.3V M | CE0KMASDL331 |
| C1564 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1565 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C1566 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1567 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1569 | | ELECTROLYTIC CAP. 47μF/25V M | CE1EMASDL470 |
| C1570 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1571 | | CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V | CHD1JJ3CH101 |
| C1572 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1573 | | ELECTROLYTIC CAP. 100μF/6.3V M | CE0KMASDL101 |
| C1575 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1576 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1577 | | CHIP CERAMIC CAP.(1608) CH J 270pF/ 50V | CHD1JJ3CH271 |
| C1578 | | CHIP CERAMIC CAP.(1608) CH J 47pF/ 50V | CHD1JJ3CH470 |
| C1579 | | CHIP CERAMIC CAP.(1608) CH J 270pF/ 50V | CHD1JJ3CH271 |
| C1580 | | CHIP CERAMIC CAP.(1608) CH J 47pF/ 50V | CHD1JJ3CH470 |
| C1581 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1582 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1583 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1584 | | ELECTROLYTIC CAP. 0.47μF/50V M H7 | CE1JMAVSLR47 |
| C1585 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1586 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1587 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1588 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1589 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1590 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1591 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1592 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1593 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1594 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1595 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1596 | | ELECTROLYTIC CAP. 0.47μF/50V M | CE1JMASDLR47 |
| C1597 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1598 | | ELECTROLYTIC CAP. 47μF/10V M | CE1AMASDL470 |
| C1599 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1600 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1601 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1602 | | CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V | CHD1JJ3CH680 |
| C1603 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1604 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1605 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1606 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1607 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1608 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1609 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1610 | | ELECTROLYTIC CAP. 4.7μF/25V M | CE1EMASDL4R7 |
| C1611 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1612 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| C1613 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1614 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1615 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1616 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1617 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1618 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1619 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1620 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1621 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1622 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1623 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1624 | | ELECTROLYTIC CAP. 10μF/16V M | CE1CMASDL100 |
| C1625 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1626 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1627 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1628 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1629 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1630 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1631 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1632 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1633 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1634 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1635 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1636 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1637 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1638 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1639 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1640 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1641 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1642 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1643 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1644 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1645 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1646 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1647 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C1648 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1650 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C1653 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1654 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| C1655 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1656 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1657 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1658 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C1659 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1660 | | CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V | CHD1JJ3CH680 |
| C1661 | | CHIP CERAMIC CAP.(1608) B K 0.01μF/ 50V | CHD1JK30B103 |
| C1663 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1665 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1668 | | ELECTROLYTIC CAP. 47μF/6.3V M | CE0KMASDL470 |
| C1673 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1674 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C1675 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C1676 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1677 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C1678 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1680 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/ 50V | CHD1JZ30F104 |
| C1681 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C1687 | | CHIP CERAMIC CAP. F Z 0.01μF/50V | CHD1JZ30F103 |
| C1688 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C1689 | | ELECTROLYTIC CAP. 0.33μF/50V M | CE1JMASDLR33 |
| C1690 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| C1694 | | ELECTROLYTIC CAP. 100μF/16V M | CE1CMASDL101 |
| C1695 | | ELECTROLYTIC CAP. 47μF/16V M | CE1CMASDL470 |
| C1696 | | CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V | CHD1JJ3CH680 |
| C1697 | | CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V | CHD1JJ3CH680 |
| C1699 | | CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V | CHD1JJ3CH330 |
| C1702 | | CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V | CHD1JJ3CH680 |
| **CONNECTORS** | | | |
| CN1502 | | FFC CONNECTOR 30PIN IMSA-9615S-30A-PP-A or | JC96J30ER007 |
| | | FFC CONNECTOR 30PIN 00 6232 030 006 800+ | JC62G30UG026 |
| CN1503 | | FFC CONNECTOR 30PIN IMSA-9615S-30A-PP-A or | JC96J30ER007 |
| | | FFC CONNECTOR 30PIN 00 6232 030 006 800+ | JC62G30UG026 |
| CN1504 | | FMN CONNECTOR SIDE 20P 20FMN-STRK-A(LF)(SN) | JCFNG20JG022 |
| CN1507 | A | AFV PCB ASSEMBLY E3B00ED | E3B00AFV |
| CN1507 | B,C | AFV PCB ASSEMBLY E3B01BD | E3B01AFV |
| **DIODES** | | | |
| D301 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D510 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D520 | | LED(RED) 1254IT | NPQZ0012541T |
| D555 | | LED MIE-534A2 or | NPZZM1E534A2 |
| | | LED SIR-563ST3F P or | QPQPS1R563ST |
| | | LED SIR-563ST3F Q | QPQQS1R563ST |
| D1501 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1502 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1503 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1505 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1506 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1507 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1512 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1513 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1514 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1515 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1516 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1517 | | ZENER DIODE MTZJT-7733B or | QDTB00MTZJ33 |
| | | DIODE ZENER 33BSB-T26 or | NDTB033BST26 |
| | | ZENER DIODE DZ-33BSBT265 | NDTB00DZ33BS |
| D1522 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1523 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1524 | | ZENER DIODE MTZJT-7710B or | QDTB00MTZJ10 |
| | | DIODE ZENER 10BSB-T26 or | NDTB010BST26 |
| | | ZENER DIODE DZ-10BSBT265 | NDTB00DZ10BS |
| D1525 | | ZENER DIODE MTZJT-775.6C or | QDTC0MTZJ5R6 |
| | | DIODE ZENER 5V6BSC-T26 or | NDTC5R6BST26 |
| | | ZENER DIODE DZ-5.6BSCT265 | NDTC0DZ5R6BS |
| D1526 | | ZENER DIODE MTZJT-7718B or | QDTB00MTZJ18 |
| | | DIODE ZENER 18BSB-T26 or | NDTB018BST26 |
| | | ZENER DIODE DZ-18BSBT265 | NDTB00DZ18BS |
| D1527 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1528 | | ZENER DIODE MTZJT-775.6B or | QDTB0MTZJ5R6 |
| | | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | | ZENER DIODE DZ-5.6BSBT265 | NDTB0DZ5R6BS |
| D1529 | | ZENER DIODE MTZJT-7710B or | QDTB00MTZJ10 |
| | | DIODE ZENER 10BSB-T26 or | NDTB010BST26 |
| | | ZENER DIODE DZ-10BSBT265 | NDTB00DZ10BS |
| D1530 | | ZENER DIODE MTZJT-775.6C or | QDTC0MTZJ5R6 |
| | | DIODE ZENER 5V6BSC-T26 or | NDTC5R6BST26 |
| | | ZENER DIODE DZ-5.6BSCT265 | NDTC0DZ5R6BS |
| D1531 | | ZENER DIODE MTZJT-777.5B or | QDTB0MTZJ7R5 |
| | | DIODE ZENER 7V5BSB-T26 or | NDTB7R5BST26 |
| | | ZENER DIODE DZ-7.5BSBT265 | NDTB0DZ7R5BS |
| D1532 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1533 | | ZENER DIODE MTZJT-773.0B or | QDTB0MTZJ3R0 |
| | | DIODE ZENER 3V0BSB-T26 or | NDTB3R0BST26 |
| | | ZENER DIODE DZ-3.0BSBT265 | NDTB0DZ3R0BS |
| D1534 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1535 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1536 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1537 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1539 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1540 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1541 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1542 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1543 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1544 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1545 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D1547 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1548 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1549 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1550 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1551 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1552 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1553 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1563 | | SCHOTTKY BARRIER DIODE SB140 or | NDQZ000SB140 |
| | | DIODE SCHOTTKY SB140 or | NDLZ00SB140S |
| | | SCHOTTKY BARRIER DIODE SB140 | NDWZ000SB140 |
| D1564 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1565 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1567 | | ZENER DIODE MTZJT-778.2B or | QDTB0MTZJ8R2 |
| | | DIODE ZENER 8V2BSB-T26 or | NDTB8R2BST26 |
| | | ZENER DIODE DZ-8.2BSBT265 | NDTB0DZ8R2BS |
| D1568 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1569 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| **ICS** | | | |
| IC301 | | IC Y/C/A LA71750EM-MPB-E | QSZBA0RSY020 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| IC451 | | IC HIFI LA72648M-MPB-E | QSZBA0RSY033 |
| IC501 | | IC SYSCON M3776AMCH-AG7GP | QSZAB0RHT153 |
| IC612 | | VFD DRIVER/CONTROLLER IC PT6313-S-TP(L) or | NSZBA0TG2007 |
| | | VFD DRIVER IC SC16313G | NSZBA0T0S005 |
| IC1501 | | SUB MICON M306H7MC-C23FP#U0 | QSZAA0RHT157 |
| **If IC1502 is R3112N211A-TR-F or BU4221G-TR, then C1505 is 0.015μF.** | | | |
| IC1502 | | VOLTAGE DETECT R3112N211A-TR-F or | QSZBA0TRC026 |
| | | RESET IC BU4221G-TR | QSZBA0TRM102 |
| C1505 | | CHIP CERAMIC CAP.(1608) B K 0.015μF/ 50V | CHD1JK30B153 |
| **If IC1502 is PST3621NR, then C1505 is 0.15μF.** | | | |
| IC1502 | | SYSTEM RESET IC PST3621NR | QSZBA0TMM162 |
| C1505 | | CHIP CERAMIC CAP.(1608) B K 0.15μF/ 25V | CHD1EK30B154 |
| IC1506 | | IC OP AMP UTC4580 DIP-8 8PIN or | NSZBA0S2H003 |
| | | IC OP AMP RC4580IP | NSZBA0STY173 |
| IC1507 | | IC SHUNT REGULATOR KIA431-AT/P | NSZBA0TJY036 |
| IC1508 | | IC OP AMP KIA4558P/P or | NSZBA0SJY035 |
| | | IC OP AMP UTC4558 | NSZBA0S2H001 |
| IC1509 | | IC INTERFACE HA118326ApF-E | QSZBA0RHT051 |
| **COILS** | | | |
| L251 | | MICRO INDUCTOR 5.6μH-K-5FT | LLARKBSTU5R6 |
| L302 | | INDUCTOR(100μH K) LAP02TA101K | LLAXKATTU101 |
| L402 | | INDUCTOR 47μH-K-5FT | LLARKBSTU470 |
| L451 | | INDUCTOR 47μH-K-5FT | LLARKBSTU470 |
| L452 | | RADIAL TYPE CHOKE COIL CW68-470K-841040NP or | LLBD00PKV023 |
| | | CHOKE COIL 47μH or | LLBD00PKV022 |
| | | CHOKE COIL 47μH-K | LLBD00PKT001 |
| L501 | | RADIAL TYPE CHOKE COIL CW68-470K-841040NP or | LLBD00PKV023 |
| | | CHOKE COIL 47μH or | LLBD00PKV022 |
| | | CHOKE COIL 47μH-K | LLBD00PKT001 |
| L502 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| L503 | | INDUCTOR 1.8μH-K-26T | LLAXKATTU1R8 |
| L1501 | | INDUCTOR(100μH K) LAP02TA101K | LLAXKATTU101 |
| L1502 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| L1504 | | RADIAL TYPE CHOKE COIL CW68-470K-841040NP or | LLBD00PKV023 |
| | | CHOKE COIL 47μH or | LLBD00PKV022 |
| | | CHOKE COIL 47μH-K | LLBD00PKT001 |
| L1505 | | RADIAL TYPE CHOKE COIL CW68-470K-841040NP or | LLBD00PKV023 |
| | | CHOKE COIL 47μH or | LLBD00PKV022 |
| | | CHOKE COIL 47μH-K | LLBD00PKT001 |
| L1506 | | INDUCTOR 100μH-K-5FT | LLARKBSTU101 |
| L1507 | | INDUCTOR(100μH K) LAP02TA101K | LLAXKATTU101 |
| L1508 | | INDUCTOR 18μH-K-26T | LLAXKATTU180 |
| L1509 | | CHOKE COIL 22μH-K or | LLBD00PKV021 |
| | | CHOKE COIL 22μH-K | LLBD00PKT002 |
| L1510 | | INDUCTOR(100μH K) LAP02TA101K | LLAXKATTU101 |
| L1511 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| L1512 | | INDUCTOR(100μH K) LAP02TA101K | LLAXKATTU101 |
| L1513 | | RADIAL TYPE CHOKE COIL CW68-470K-841040NP or | LLBD00PKV023 |
| | | CHOKE COIL 47μH or | LLBD00PKV022 |
| | | CHOKE COIL 47μH-K | LLBD00PKT001 |
| L1514 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| L1516 | | INDUCTOR(0.47μH K) LAP02TAR47K | LLAXKATTUR47 |
| L1601 | | BEAD CORE ASSEMBLY E3B91BD | 1VSA15663 |
| **TRANSISTORS** | | | |
| Q302 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q401 | | CHIP TRANSISTOR RN1511(TE85R.F) or | QQ2Z0RN1511F |
| | | CHIP TRANSISTOR FMG4A T148 | QQ2Z000FMG4A |
| Q402 | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | TRANSISTOR 2SA1015-GR(TE2 F T) | QQS12SA1015F |
| Q403 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q404 | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-GR(TE2 F T) | QQS12SA1015F |
| Q405 | | RES. BUILT-IN TRANSISTOR KRA103M-AT/P or | NQSZ0KRA103M |
| | | TRANSISTOR RN2203(TE4 F T) | QQSZ0RN2203F |
| Q406 | | CHIP TRANSISTOR KTC3875S-Y-RTK/P | NQ1YKTC3875S |
| Q451 | | TRANSISTOR KRC103S-RTK/P | NQ1ZKRC103SP |
| Q506 | | PHOTO TRANSISTOR PT204-6B-12 or | NPWZT2046B12 |
| | | PHOTO TRANSISTOR MID-32A22F | NPWZ1D32A22F |
| Q514 | | TRANSISTOR KTA1267-Y-AT/P or | NQSYKTA1267P |
| | | TRANSISTOR KTA1267-GR-AT/P | NQS1KTA1267P |
| Q515 | | NPN TRANSISTOR KRC106M-AT/P or | NQSZKRC106MP |
| | | NPN TRANSISTOR RES.-IN RN1206 | QQSZ0RN1206F |
| Q520 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1502 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1503 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1504 | | TRANSISTOR KTA1267-Y-AT/P or | NQSYKTA1267P |
| | | TRANSISTOR KTA1267-GR-AT/P | NQS1KTA1267P |
| Q1505 | | TRANSISTOR KTA1267-Y-AT/P or | NQSYKTA1267P |
| | | TRANSISTOR KTA1267-GR-AT/P | NQS1KTA1267P |
| Q1508 | | TRANSISTOR KTA1281Y-AT/P or | NQVYKTA1281P |
| | | TRANSISTOR 2SA1020-Y(TE6 F M) | QQSY2SA1020F |
| Q1509 | | NPN TRANSISTOR KRC103M-AT/P | NQSZKRC103MP |
| Q1511 | | RES. BUILT-IN TRANSISTOR KRA104M-AT/P or | NQSZ0KRA104M |
| | | TRANSISTOR RN2204(TE4 F T) | QQSZ0RN2204F |
| Q1512 | | NPN TRANSISTOR KRC103M-AT/P | NQSZKRC103MP |
| Q1513 | | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | | TRANSISTOR KTC3198-GR-AT/P | NQS4KTC3198P |
| Q1514 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1515 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1516 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1517 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1518 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1519 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1520 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1521 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1525 | | NPN TRANSISTOR KRC103M-AT/P | NQSZKRC103MP |
| Q1526 | | TRANSISTOR KTC3199-BL-AT/P or | NQS5KTC3199P |
| | | TRANSISTOR 2SC1815-BL(TE2 F T) | QQS22SC1815F |
| Q1527 | | TRANSISTOR KTA1267-Y-AT/P or | NQSYKTA1267P |
| | | TRANSISTOR KTA1267-GR-AT/P | NQS1KTA1267P |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| Q1528 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1529 | | FET MOS SMD KTK5132S-RTK/P or | NF1ZKTK5132S |
| | | MOS FET SSM3K15F(TE85L F) | QF1GSSM3K15F |
| Q1530 | | FET MOS SMD KTK5132S-RTK/P or | NF1ZKTK5132S |
| | | MOS FET SSM3K15F(TE85L F) | QF1GSSM3K15F |
| Q1531 | | NPN TRANSISTOR KRC103M-AT/P | NQSZKRC103MP |
| Q1532 | | NPN TRANSISTOR KRC103M-AT/P | NQSZKRC103MP |
| Q1533 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1534 | | TRANSISTOR KTA1267-Y-AT/P or | NQSYKTA1267P |
| | | TRANSISTOR KTA1267-GR-AT/P | NQS1KTA1267P |
| Q1535 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1536 | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-GR(TE2 F T) | QQS12SA1015F |
| Q1537 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1538 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1539 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1540 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1541 | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-GR(TE2 F T) | QQS12SA1015F |
| Q1542 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1543 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1544 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1545 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1546 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| **RESISTORS** | | | |
| R251 | | CHIP RES. 1/10W J 39k Ω or | RRXAJR5Z0393 |
| | | RES CHIP 1608 1/10W J 39k Ω | RRXA393YF002 |
| R252 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R301 | | CHIP RES. 1/10W J 1.2k Ω or | RRXAJR5Z0122 |
| | | RES CHIP 1608 1/10W J 1.2k Ω | RRXA122YF002 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R303 | | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R305 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R308 | C | CHIP RES. 1/10W J 3.9k Ω or | RRXAJR5Z0392 |
| | C | RES CHIP 1608 1/10W J 3.9k Ω | RRXA392YF002 |
| R312 | C | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | C | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R314 | | CHIP RES. 1/10W J 3.9k Ω or | RRXAJR5Z0392 |
| | | RES CHIP 1608 1/10W J 3.9k Ω | RRXA392YF002 |
| R316 | | CHIP RES. 1/10W J 1.8k Ω or | RRXAJR5Z0182 |
| | | RES CHIP 1608 1/10W J 1.8k Ω | RRXA182YF002 |
| R319 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R320 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R321 | | CHIP RES. 1/10W J 150 Ω or | RRXAJR5Z0151 |
| | | RES CHIP 1608 1/10W J 150 Ω | RRXA151YF002 |
| R322 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R323 | | CHIP RES. 1/10W J 150 Ω or | RRXAJR5Z0151 |
| | | RES CHIP 1608 1/10W J 150 Ω | RRXA151YF002 |
| R325 | | CHIP RES. 1/10W J 1.2k Ω or | RRXAJR5Z0122 |
| | | RES CHIP 1608 1/10W J 1.2k Ω | RRXA122YF002 |
| R326 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R327 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R328 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R329 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R330 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R331 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R332 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R333 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R334 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R335 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R336 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R337 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R338 | | CHIP RES. 1/10W J 680 Ω or | RRXAJR5Z0681 |
| | | RES CHIP 1608 1/10W J 680 Ω | RRXA681YF002 |
| R401 | | CARBON RES. 1/4W J 820 Ω | RCX4JATZ0821 |
| R402 | | CARBON RES. 1/6W J 100 Ω or | RCX6JATZ0101 |
| | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R404 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R405 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R406 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R407 | | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R408 | | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R409 | | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R410 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R411 | | CHIP RES. 1/10W J 27k Ω or | RRXAJR5Z0273 |
| | | RES CHIP 1608 1/10W J 27k Ω | RRXA273YF002 |
| R412 | | CHIP RES. 1/10W J 120 Ω or | RRXAJR5Z0121 |
| | | RES CHIP 1608 1/10W J 120 Ω | RRXA121YF002 |
| R413 | | CHIP RES. 1/10W J 330k Ω or | RRXAJR5Z0334 |
| | | RES CHIP 1608 1/10W J 330k Ω | RRXA334YF002 |
| R414 | | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R415 | | CHIP RES. 1/10W J 1.8k Ω or | RRXAJR5Z0182 |
| | | RES CHIP 1608 1/10W J 1.8k Ω | RRXA182YF002 |
| R416 | | CHIP RES. 1/10W J 560 Ω or | RRXAJR5Z0561 |
| | | RES CHIP 1608 1/10W J 560 Ω | RRXA561YF002 |
| R417 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R418 | | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R419 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R420 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R421 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R451 | | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R452 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R462 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R463 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R464 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R465 | | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R466 | | CHIP RES. 1/10W J 8.2k Ω or | RRXAJR5Z0822 |
| | | RES CHIP 1608 1/10W J 8.2k Ω | RRXA822YF002 |
| R469 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R470 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R479 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R480 | | CARBON RES. 1/6W J 100 Ω or | RCX6JATZ0101 |
| | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R481 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R482 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R483 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R484 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R509 | | CHIP RES. 1/10W J 180 Ω or | RRXAJR5Z0181 |
| | | RES CHIP 1608 1/10W J 180 Ω | RRXA181YF002 |
| R511 | | CARBON RES. 1/6W G 3.6k Ω or | RCX6GATZ0362 |
| | | CARBON RES. 1/4W G 3.6k Ω | RCX4GATZ0362 |
| R512 | | CHIP RES. 1/10W J 68k Ω or | RRXAJR5Z0683 |
| | | RES CHIP 1608 1/10W J 68k Ω | RRXA683YF002 |
| R513 | | CHIP RES. 1/10W J 33k Ω or | RRXAJR5Z0333 |
| | | RES CHIP 1608 1/10W J 33k Ω | RRXA333YF002 |
| R514 | | CARBON RES. 1/6W G 10k Ω or | RCX6GATZ0103 |
| | | CARBON RES. 1/4W G 10k Ω | RCX4GATZ0103 |
| R516 | | CARBON RES. 1/6W G 470 Ω or | RCX6GATZ0471 |
| | | CARBON RES. 1/4W G 470 Ω | RCX4GATZ0471 |
| R517 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R519 | | CARBON RES. 1/6W G 22k Ω or | RCX6GATZ0223 |
| | | CARBON RES. 1/4W G 22k Ω | RCX4GATZ0223 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R523 | | CARBON RES. 1/6W G 1.5k Ω or | RCX6GATZ0152 |
| | | CARBON RES. 1/4W G 1.5k Ω | RCX4GATZ0152 |
| R525 | | CHIP RES. 1/10W J 390k Ω or | RRXAJR5Z0394 |
| | | RES CHIP 1608 1/10W J 390k Ω | RRXA394YF002 |
| R526 | | CARBON RES. 1/6W J 390k Ω or | RCX6JATZ0394 |
| | | CARBON RES. 1/4W J 390k Ω | RCX4JATZ0394 |
| R528 | | CARBON RES. 1/6W G 4.7k Ω or | RCX6GATZ0472 |
| | | CARBON RES. 1/4W G 4.7k Ω | RCX4GATZ0472 |
| R536 | | CHIP RES. 1/10W J 1.8k Ω or | RRXAJR5Z0182 |
| | | RES CHIP 1608 1/10W J 1.8k Ω | RRXA182YF002 |
| R537 | | CHIP RES. 1/10W J 680 Ω or | RRXAJR5Z0681 |
| | | RES CHIP 1608 1/10W J 680 Ω | RRXA681YF002 |
| R539 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R540 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R541 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R542 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R543 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R544 | | CARBON RES. 1/6W J 10k Ω or | RCX6JATZ0103 |
| | | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R545 | | CARBON RES. 1/6W J 10k Ω or | RCX6JATZ0103 |
| | | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R546 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R555 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R567 | | CHIP RES. 1/10W J 39k Ω or | RRXAJR5Z0393 |
| | | RES CHIP 1608 1/10W J 39k Ω | RRXA393YF002 |
| R568 | | CHIP RES. 1/10W J 220k Ω or | RRXAJR5Z0224 |
| | | RES CHIP 1608 1/10W J 220k Ω | RRXA224YF002 |
| R569 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R570 | | CARBON RES. 1/6W J 4.7k Ω or | RCX6JATZ0472 |
| | | CARBON RES. 1/4W J 4.7k Ω | RCX4JATZ0472 |
| R572 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R574 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R575 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R576 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R577 | | CHIP RES. 1/10W J 1.5k Ω or | RRXAJR5Z0152 |
| | | RES CHIP 1608 1/10W J 1.5k Ω | RRXA152YF002 |
| R578 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R582 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R585 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R586 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R588 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R592 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R595 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R617 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R618 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R621 | | CHIP RES. 1/10W J 68k Ω or | RRXAJR5Z0683 |
| | | RES CHIP 1608 1/10W J 68k Ω | RRXA683YF002 |
| R622 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R623 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R624 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R625 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R626 | | CHIP RES. 1/10W J 1.8k Ω or | RRXAJR5Z0182 |
| | | RES CHIP 1608 1/10W J 1.8k Ω | RRXA182YF002 |
| R627 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R628 | | CHIP RES. 1/10W J 1.2k Ω or | RRXAJR5Z0122 |
| | | RES CHIP 1608 1/10W J 1.2k Ω | RRXA122YF002 |
| R629 | | CHIP RES. 1/10W J 1.5k Ω or | RRXAJR5Z0152 |
| | | RES CHIP 1608 1/10W J 1.5k Ω | RRXA152YF002 |
| R630 | | CHIP RES. 1/10W J 3.9k Ω or | RRXAJR5Z0392 |
| | | RES CHIP 1608 1/10W J 3.9k Ω | RRXA392YF002 |
| R631 | | CARBON RES. 1/4W J 150 Ω | RCX4JATZ0151 |
| R648 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R650 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R653 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R656 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R663 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R664 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R665 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1501 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1502 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1504 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1505 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1506 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1507 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1508 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1515 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1531 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1534 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1535 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1540 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1543 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1544 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1545 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1546 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1547 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1548 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1549 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1551 | | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R1552 | | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R1553 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1554 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1555 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R1558 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1560 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1564 | | CHIP RES. 1/10W J 470k Ω or | RRXAJR5Z0474 |
| | | RES CHIP 1608 1/10W J 470k Ω | RRXA474YF002 |
| R1565 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1570 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1571 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1572 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1575 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R1576 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1577 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1578 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1579 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1580 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R1581 | | CHIP RES. 1/10W J 120 Ω or | RRXAJR5Z0121 |
| | | RES CHIP 1608 1/10W J 120 Ω | RRXA121YF002 |
| R1582 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1584 | | CHIP RES. 1/10W J 620 Ω or | RRXAJR5Z0621 |
| | | RES CHIP 1608 1/10W J 620 Ω | RRXA621YF002 |
| R1585 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1586 | | CHIP RES. 1/10W J 2k Ω or | RRXAJR5Z0202 |
| | | RES CHIP 1608 1/10W J 2.0k Ω | RRXA202YF002 |
| R1587 | | CHIP RES. 1/10W J 2k Ω or | RRXAJR5Z0202 |
| | | RES CHIP 1608 1/10W J 2.0k Ω | RRXA202YF002 |
| R1588 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R1590 | | CARBON RES. 1/4W J 1.8k Ω | RCX4JATZ0182 |
| R1594 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1595 | | CARBON RES. 1/4W J 390 Ω | RCX4JATZ0391 |
| R1599 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1600 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1601 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1602 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1603 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1604 | | CARBON RES. 1/6W J 47k Ω or | RCX6JATZ0473 |
| | | CARBON RES. 1/4W J 47k Ω | RCX4JATZ0473 |
| R1605 | | CARBON RES. 1/4W J 680 Ω | RCX4JATZ0681 |
| R1606 | | CARBON RES. 1/4W J 680 Ω | RCX4JATZ0681 |
| R1608 | | CHIP RES. 1/10W F 240 Ω or | RRXAFR5H2400 |
| | | CHIP RES.(1608) 1/10W F 240 Ω or | RRXAFR5Z2400 |
| | | RES CHIP 1608 1/10W F 240 Ω | RTW2400YF002 |
| R1609 | | CHIP RES. 1/10W F 220 Ω or | RRXAFR5H2200 |
| | | CHIP RES.(1608) 1/10W F 220 Ω or | RRXAFR5Z2200 |
| | | RES CHIP 1608 1/10W F 220 Ω | RTW2200YF002 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R1610 | | CHIP RES. 1/10W F 220 Ω or | RRXAFR5H2200 |
| | | CHIP RES.(1608) 1/10W F 220 Ω or | RRXAFR5Z2200 |
| | | RES CHIP 1608 1/10W F 220 Ω | RTW2200YF002 |
| R1611 | | CHIP RES. 1/10W F 220 Ω or | RRXAFR5H2200 |
| | | CHIP RES.(1608) 1/10W F 220 Ω or | RRXAFR5Z2200 |
| | | RES CHIP 1608 1/10W F 220 Ω | RTW2200YF002 |
| R1612 | | CHIP RES. 1/10W F 220 Ω or | RRXAFR5H2200 |
| | | CHIP RES.(1608) 1/10W F 220 Ω or | RRXAFR5Z2200 |
| | | RES CHIP 1608 1/10W F 220 Ω | RTW2200YF002 |
| R1614 | | CARBON RES. 1/6W J 22k Ω or | RCX6JATZ0223 |
| | | CARBON RES. 1/4W J 22k Ω | RCX4JATZ0223 |
| R1616 | | CHIP RES. 1/10W J 27 Ω or | RRXAJR5Z0270 |
| | | RES CHIP 1608 1/10W J 27 Ω | RRXA270YF002 |
| R1617 | | CARBON RES. 1/4W J 300 Ω | RCX4JATZ0301 |
| R1618 | | CHIP RES. 1/10W J 360 Ω or | RRXAJR5Z0361 |
| | | RES CHIP 1608 1/10W J 360 Ω | RRXA361YF002 |
| R1619 | | CHIP RES. 1/10W J 3.9k Ω or | RRXAJR5Z0392 |
| | | RES CHIP 1608 1/10W J 3.9k Ω | RRXA392YF002 |
| R1620 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R1621 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R1622 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R1623 | | CHIP RES. 1/10W J 3k Ω or | RRXAJR5Z0302 |
| | | RES CHIP 1608 1/10W J 3.0k Ω | RRXA302YF002 |
| R1624 | | CHIP RES. 1/10W J 3k Ω or | RRXAJR5Z0302 |
| | | RES CHIP 1608 1/10W J 3.0k Ω | RRXA302YF002 |
| R1625 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1626 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1628 | | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R1629 | | CARBON RES. 1/6W J 1.5k Ω or | RCX6JATZ0152 |
| | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R1630 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R1631 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R1632 | | CHIP RES. 1/10W F 33.0k Ω or | RRXAFR5H3302 |
| | | CHIP RES.(1608) 1/10W F 33k Ω or | RRXAFR5Z3302 |
| | | RES CHIP 1608 1/10W F 33.0k Ω | RTW3302YF002 |
| R1634 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1635 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1636 | | CARBON RES. 1/4W J 820 Ω | RCX4JATZ0821 |
| R1637 | | CARBON RES. 1/6W J 1.5k Ω or | RCX6JATZ0152 |
| | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R1638 | | CARBON RES. 1/4W J 150 Ω | RCX4JATZ0151 |
| R1639 | | CARBON RES. 1/6W J 330 Ω or | RCX6JATZ0331 |
| | | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R1640 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1641 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1642 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1643 | | CARBON RES. 1/4W J 180 Ω | RCX4JATZ0181 |
| R1645 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R1646 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1647 | | CHIP RES. 1/10W F 33.0k Ω or | RRXAFR5H3302 |
| | | CHIP RES.(1608) 1/10W F 33k Ω or | RRXAFR5Z3302 |
| | | RES CHIP 1608 1/10W F 33.0k Ω | RTW3302YF002 |
| R1648 | | CARBON RES. 1/4W J 180 Ω | RCX4JATZ0181 |
| R1649 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1650 | | CHIP RES. 1/10W J 68k Ω or | RRXAJR5Z0683 |
| | | RES CHIP 1608 1/10W J 68k Ω | RRXA683YF002 |
| R1651 | | CHIP RES. 1/10W J 8.2k Ω or | RRXAJR5Z0822 |
| | | RES CHIP 1608 1/10W J 8.2k Ω | RRXA822YF002 |
| R1652 | | CHIP RES. 1/10W J 68k Ω or | RRXAJR5Z0683 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | RES CHIP 1608 1/10W J 68k Ω | RRXA683YF002 |
| R1654 | | CHIP RES. 1/10W F 100 Ω or | RRXAFR5H1000 |
| | | CHIP RES. 1/10W F 100 Ω or | RRXAFR5Z1000 |
| | | RES CHIP 1608 1/10W F 100 Ω | RTW1000YF002 |
| R1655 | | CHIP RES. 1/10W F 1.5k Ω or | RRXAFR5H1501 |
| | | CHIP RES. 1/10W F 1.5k Ω or | RRXAFR5Z1501 |
| | | RES CHIP 1608 1/10W F 1.50k Ω | RTW1501YF002 |
| R1656 | | CARBON RES. 1/4W J 560 Ω | RCX4JATZ0561 |
| R1657 | | CHIP RES. 1/10W F 4.7k Ω or | RRXAFR5H4701 |
| | | CHIP RES.(1608) 1/10W F 4.7k Ω or | RRXAFR5Z4701 |
| | | RES CHIP 1608 1/10W F 4.70k Ω | RTW4701YF002 |
| R1658 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R1660 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1661 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1666 | | CARBON RES. 1/4W J 10 Ω | RCX4JATZ0100 |
| R1667 | | CARBON RES. 1/4W J 12 Ω | RCX4JATZ0120 |
| R1673 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1674 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1676 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1677 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1678 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1679 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1680 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1681 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R1682 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1683 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1684 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R1687 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1688 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R1689 | | CARBON RES. 1/4W J 820 Ω | RCX4JATZ0821 |
| R1690 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1691 | | CHIP RES. 1/10W J 1.2k Ω or | RRXAJR5Z0122 |
| | | RES CHIP 1608 1/10W J 1.2k Ω | RRXA122YF002 |
| R1692 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1693 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1694 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R1695 | | CHIP RES. 1/10W F 8.2k Ω or | RRXAFR5H8201 |
| | | CHIP RES.(1608) 1/10W F 8.2k Ω or | RRXAFR5Z8201 |
| | | RES CHIP 1608 1/10W F 8.20k Ω | RTW8201YF002 |
| R1696 | | CHIP RES. 1/10W F 13k Ω or | RRXAFR5H1302 |
| | | CHIP RES. 1/10W F 13k Ω or | RRXAFR5Z1302 |
| | | RES CHIP 1608 1/10W F 13.0k Ω | RTW1302YF002 |
| R1697 | | CHIP RES. 1/10W J 13k Ω or | RRXAJR5Z0133 |
| | | RES CHIP 1608 1/10W J 13k Ω | RRXA133YF002 |
| R1698 | | CHIP RES. 1/10W F 8.2k Ω or | RRXAFR5H8201 |
| | | CHIP RES.(1608) 1/10W F 8.2k Ω or | RRXAFR5Z8201 |
| | | RES CHIP 1608 1/10W F 8.20k Ω | RTW8201YF002 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R1699 | | CHIP RES. 1/10W F 13k Ω or | RRXAFR5H1302 |
| | | CHIP RES. 1/10W F 13k Ω or | RRXAFR5Z1302 |
| | | RES CHIP 1608 1/10W F 13.0k Ω | RTW1302YF002 |
| R1700 | | CHIP RES. 1/10W J 13k Ω or | RRXAJR5Z0133 |
| | | RES CHIP 1608 1/10W J 13k Ω | RRXA133YF002 |
| R1701 | | CARBON RES. 1/4W J 680 Ω | RCX4JATZ0681 |
| R1702 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1703 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R1704 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1705 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R1706 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1707 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1708 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R1709 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1710 | | CARBON RES. 1/6W J 3.3k Ω or | RCX6JATZ0332 |
| | | CARBON RES. 1/4W J 3.3k Ω | RCX4JATZ0332 |
| R1711 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1712 | | CHIP RES. 1/10W J 1.8k Ω or | RRXAJR5Z0182 |
| | | RES CHIP 1608 1/10W J 1.8k Ω | RRXA182YF002 |
| R1713 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1714 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1715 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R1717 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R1718 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R1719 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R1720 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1721 | | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R1722 | | CARBON RES. 1/4W J 1.8k Ω | RCX4JATZ0182 |
| R1723 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1724 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1725 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R1726 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R1727 | | CHIP RES. 1/10W J 390 Ω or | RRXAJR5Z0391 |
| | | RES CHIP 1608 1/10W J 390 Ω | RRXA391YF002 |
| R1728 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R1729 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1730 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1731 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R1732 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R1733 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1734 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R1735 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1736 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R1737 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R1738 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R1739 | | CARBON RES. 1/6W J 100 Ω or | RCX6JATZ0101 |
| | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R1740 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R1741 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R1742 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R1743 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R1744 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R1745 | | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R1746 | | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R1748 | | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R1749 | | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R1750 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R1751 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R1753 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1754 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1755 | | CHIP RES. 1/10W J 1M Ω or | RRXAJR5Z0105 |
| | | RES CHIP 1608 1/10W J 1.0M Ω | RRXA105YF002 |
| R1756 | | CHIP RES. 1/10W J 1M Ω or | RRXAJR5Z0105 |
| | | RES CHIP 1608 1/10W J 1.0M Ω | RRXA105YF002 |
| R1757 | | CHIP RES. 1/10W J 1M Ω or | RRXAJR5Z0105 |
| | | RES CHIP 1608 1/10W J 1.0M Ω | RRXA105YF002 |
| R1758 | | CHIP RES. 1/10W J 1M Ω or | RRXAJR5Z0105 |
| | | RES CHIP 1608 1/10W J 1.0M Ω | RRXA105YF002 |
| R1759 | | CARBON RES. 1/6W J 330 Ω or | RCX6JATZ0331 |
| | | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R1760 | | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R1761 | | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R1762 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R1763 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1764 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1767 | | CHIP RES. 1/10W J 470k Ω or | RRXAJR5Z0474 |
| | | RES CHIP 1608 1/10W J 470k Ω | RRXA474YF002 |
| R1769 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R1770 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R1771 | | CARBON RES. 1/6W J 12k Ω or | RCX6JATZ0123 |
| | | CARBON RES. 1/4W J 12k Ω | RCX4JATZ0123 |
| R1772 | | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R1773 | | CHIP RES. 1/10W J 150 Ω or | RRXAJR5Z0151 |
| | | RES CHIP 1608 1/10W J 150 Ω | RRXA151YF002 |
| R1775 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1776 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1777 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1778 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1779 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1780 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1781 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1782 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1783 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R1784 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1785 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| **SWITCHES** | | | |
| SW506 | | LEAF SWITCH MXS01830MVP0 | SSC0101MCE03 |
| SW507 | | SWITCH ROTARY SSS-53MD-1 | SSR0106KB004 |
| SW521 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW522 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW523 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW524 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW525 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW1501 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW1502 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| **MISCELLANEOUS** | | | |
| B-9H | | BUSH LED(F) H3700UD | 0VM409508 |
| B-9I | | BUSH LED(F) H3700UD | 0VM409508 |
| B-10 | | SHIELD ASSEMBLY(T3 PAL) E3B90ED | 1VM425280 |
| B-16 | | DOUBLE SIDE TAPE HB200UD | 0VM412870 |
| B-31 | | ROHM HOLDER H7770JD | 0VM304573 |
| FL601 | | VFD 7-BT-306NS | TVFD1C0FT050 |
| JK1501 | | FIBER OPTIC TRANS.MODULE 0C-0805T*002 or | JWHHA00JD002 |
| | | OPTICAL TRANSMITTING MODULE JST1162 | JWHHA00SLT01 |
| JK1502 | | RCA JACK MSP-281V41-B(B110) | JXRL010LY140 |
| JK1503 | | RCA JACK MSP-382V-12 NILF | JXRL020LY120 |
| JK1504 | | RGB CONNECTOR MRC-021V-05 ABS(B110 | JXGL210LY008 |
| JK1505 | | RCA JACK MSP-213V1-652-B NI L | JXRL030LY116 |
| JK1510 | | S TYPE JACK MDC-050V-2.4 LF(B110 or | JXEL040LY003 |
| | | S TYPE JACK DIN-425-01 | JXEL040YUQ01 |
| L-2 | | SCREW P-TIGHT M3X8 BIND HEAD+ | GBCP3080 |
| L-9P | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| PS502 | | PHOTO INTERRUPTER RPI-302C70 | QPWZP1302C70 |
| RS1501 | | SENSOR REMOTE RECEIVER KSM-602LU2S or | USESJRSKK048 |
| | | REMOTE RECEIVER PIC-37042LU or | USESJRSKK033 |
| | | REMOTE RECEIVER MIM-93M6DKF | USESJRSUNT01 |
| TP301 | | PCB JUMPER D0.6-P7.0 | JW7.0T |
| TP502 | | PCB JUMPER D0.6-P9.0 | JW9.0T |
| TP503 | | PCB JUMPER D0.6-P7.0 | JW7.0T |
| TP504 | | PCB JUMPER D0.6-P15.0 | JW15.0T |
| TU1501 | | TUNER UNIT TMFE2-303A | UTUNPLGAL020 |
| W1 | | FFC AV-MAIN 30P 30PIN/TL335MM | WX1E3B00-001 |
| VR501 | | CARBON P.O.T. VZ067TL1 B104 PB(F) | VRCB104HH014 |
| X301 | | XTAL 4.433619MHz or | FXC445LLN004 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | XTAL 1K*044334EE | FXC445LDS002 |
| X501 | | QUARTS CRYSTAL 12.000000MHz or | FXD126LCHE01 |
| | | XTAL 12MHz 12.000MHz | FXD126LDS002 |
| X1501 | | RESONATOR XTAL 32.768kHz QTF38-32.768K125P15L or | FXC323LQUA03 |
| | | XTAL DT38 32.768kHz | FX0323LDS001 |
| X1502 | | QUARTZ CRYSTAL C49SJJ11640-10.000M or | FXD106LLN002 |
| | | RESONATOR XTAL 10MHz AT-49 10MHz | FXE106LDS001 |

## POWER SW CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | POWER SW CBA (AV PCB B)<br>Consists of the following: | ---------- |
| | | **DIODE** | |
| D1602 | | LED(RED) 1254IT | NPQZ0012541T |
| | | **SWITCHES** | |
| SW1601 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| | | **MISCELLANEOUS** | |
| W6 | | PARALLEL WIRE 4P AWG26#2651/126MM | WX1E4340-006 |

## SENSOR CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | SENSOR CBA<br>Consists of the following: | 1VSA13519 |
| | | **TRANSISTORS** | |
| Q503 | | PHOTO TRANSISTOR PT204-6B-12 or | NPWZT2046B12 |
| | | PHOTO TRANSISTOR MID-32A22F | NPWZ1D32A22F |
| Q504 | | PHOTO TRANSISTOR PT204-6B-12 or | NPWZT2046B12 |
| | | PHOTO TRANSISTOR MID-32A22F | NPWZ1D32A22F |

## PW/SW CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | PW/SW CBA<br>Consists of the following: | 1VSA15762 |
| | | POWER SUPPLY CBA (PW/SW-A)<br>FRONT JACK CBA (PW/SW-B)<br>SW CBA (PW/SW-C)<br>REAR JACK CBA (PW/SW-D) | ----------<br>----------<br>----------<br>---------- |

## POWER SUPPLY CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | POWER SUPPLY CBA (PW/SW-A)<br>Consists of the following: | ---------- |
| | | **CAPACITORS** | |
| C013 | | ELECTROLYTIC CAP 470µF/50V M or | CE1JMZADL471 |
| | | ELECTROLYTIC CAP 470µF/50V M | CE1JMZPDL471 |
| C014 | | ELECTROLYTIC CAP. 470µF/25V M | CE1EMASDL471 |
| C020 | | ELECTROLYTIC CAP. 22µF/50V M | CE1JMASDL220 |
| C022 | | ELECTROLYTIC CAP. 470µF/35V M | CE1GMASDL471 |
| C1001⚠ | | ACROSS THE LINE CAP. 0.068µF/250V or | CT2E683DC016 |
| ⚠ | | METALIZED FILM CAP. 0.068µF/250V M | CT2E683MS037 |
| C1004 | | ELECTROLYTIC CAP. 220µF/400V M or | CA2H221S6029 |
| | | ELECTROLYTIC CAP. 220µF/400V M | CA2H221NC084 |
| C1006⚠ | | SAFTY CAP. 2200pF/250V or | CCN2EMA0E222 |
| ⚠ | | SAFETY CAP. 2200pF/250V | CA2E222MR049 |
| C1029 | | CERAMIC CAP. B K 150pF/2KV | CCD3DKP0B151 |
| C1030 | | POLYESTER FILM CAP. (PB FREE) 0.068µF/100V J or | CA2A683DT018 |
| | | FILM CAP.(P) 0.068µF/50V J or | CA1J683MS029 |
| | | FILM CAP.(P) 0.068µF/100V J | CMA2AJS00683 |
| C1034 | | FILM CAP.(P) 0.039µF/50V J or | CA1J393MS029 |
| | | FILM CAP.(P) 0.039µF/100V J | CMA2AJS00393 |
| C1035 | | ELECTROLYTIC CAP. 3300µF/6.3V SL or | CE0KMZADL332 |
| | | ELECTROLYTIC CAP. 3300µF/6.3V SM | CE0KMZPDL332 |
| C1036 | | CERAMIC CAP. B K 470pF/500V | CCD2JKP0B471 |
| C1037 | | ELECTROLYTIC CAP. 2200µF/25V SL or | CE1EMZADL222 |
| | | ELECTROLYTIC CAP. 2200µF/25V M | CE1EMZPDL222 |
| C1039 | | ELECTROLYTIC CAP. 470µF/16V M | CE1CMASDL471 |
| C1100 | | POLYESTER FILM CAP. (PB FREE) 0.0068µF/100V J or | CA2A682DT018 |
| | | FILM CAP.(P) 0.0068µF/50V J or | CA1J682MS029 |
| | | FILM CAP.(P) CQ921M2A682 | CMA2AJS00682 |
| C1102 | | CERAMIC CAP. B K 470pF/500V | CCD2JKP0B471 |
| C1104 | | ELECTRIC CAP. 4700µF/10V or | CE1AMZADL472 |
| | | ELECTROLYTIC CAP. 4700µF/10V M | CE1AMZPDL472 |
| C1105 | | ELECTRIC CAP. 4700µF/10V or | CE1AMZADL472 |
| | | ELECTROLYTIC CAP. 4700µF/10V M | CE1AMZPDL472 |
| C1107 | | ELECTROLYTIC CAP. 2200µF/10V SL or | CE1AMZADL222 |
| | | ELECTROLYTIC CAP. 2200µF/10V M | CE1AMZPDL222 |
| C1110 | | ELECTROLYTIC CAP. 470µF/6.3V M | CE0KMASDL471 |
| C1112 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V | CHD1JK30B103 |
| C1113 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V | CHD1JK30B104 |
| C1114 | | ELECTROLYTIC CAP. 1000µF/6.3V M | CE0KMASDL102 |
| C1115 | | ELECTROLYTIC CAP. 1000µF/6.3V M | CE0KMASDL102 |
| C1116 | | ELECTROLYTIC CAP. 100µF/6.3V M | CE0KMASDL101 |
| C1117 | | ELECTROLYTIC CAP. 47µF/16V M | CE1CMASDL470 |
| C1118 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V | CHD1JK30B103 |
| C1119 | | ELECTROLYTIC CAP. 470µF/16V M | CE1CMASDL471 |
| C1121 | | ELECTROLYTIC CAP. 47µF/16V M | CE1CMASDL470 |
| C1126 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V | CHD1JK30B103 |
| C1127 | | ELECTROLYTIC CAP. 100µF/6.3V M | CE0KMASDL101 |
| C1128 | | ELECTROLYTIC CAP. 100µF/6.3V M | CE0KMASDL101 |
| C1129 | | ELECTROLYTIC CAP. 100µF/6.3V M | CE0KMASDL101 |
| C1130 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V | CHD1JK30B104 |
| C1131 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V | CHD1JK30B104 |
| C1132 | | ELECTROLYTIC CAP. 1000µF/6.3V M | CE0KMASDL102 |
| C1133 | | POLYESTER FILM CAP. (PB FREE) 0.001µF/100V J or | CA2A102DT018 |
| | | FILM CAP.(P) 0.001µF/50V J or | CA1J102MS029 |
| | | FILM CAP.(P) 0.001µF/100V J | CMA2AJS00102 |
| C1138 | | ELECTROLYTIC CAP. 100µF/16V M | CE1CMASDL101 |
| C1139 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V | CHD1JK30B104 |
| C1140 | | ELECTROLYTIC CAP. 100µF/16V M | CE1CMASDL101 |
| C1141 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V | CHD1JK30B104 |
| C1142 | | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V | CHD1JK30B104 |
| C1143 | | ELECTROLYTIC CAP. 470µF/6.3V M | CE0KMASDL471 |
| | | **CONNECTORS** | |
| CN1001 | | FFC CONNECTOR 30PIN IMSA-9615S-30A-PP-A or | JC96J30ER007 |
| | | FFC CONNECTOR 30PIN 00 6232 030 006 800+ | JC62G30UG026 |
| CN1002 | | PH CONNECTOR (WHITE) TOP 2P B2B-PH-K-S(LF) | J3PHC02JG017 |
| | | **DIODES** | |
| D012 | | RECTIFIER DIODE BA158 or | NDQZ000BA158 |
| | | DIODE FAST RECOVERY BA158 or | NDLZ00BA158S |
| | | RECTIFIER DIODE BA158 | NDWZ000BA158 |
| D013 | | RECTIFIER DIODE BA158 or | NDQZ000BA158 |
| | | DIODE FAST RECOVERY BA158 or | NDLZ00BA158S |
| | | RECTIFIER DIODE BA158 | NDWZ000BA158 |
| D014 | | SCHOTTKY BARRIER DIODE SB390 or | NDQZ000SB390 |
| | | DIODE SCHOTTKY SB390 or | NDLZ00SB390S |
| | | SCHOTTKY BARRIER DIODE SB390 | NDWZ000SB390 |
| D015 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | DIODE 1N5397BD | NDL1001N5397 |
| D016 | | SCHOTTKY BARRIER DIODE SB340 or | NDQZ000SB340 |
| | | DIODE SCHOTTKY SB340 or | NDLZ00SB340S |
| | | SCHOTTKY BARRIER DIODE SB340 | NDWZ000SB340 |
| D017 | | ZENER DIODE MTZJT-7716B or | QDTB00MTZJ16 |
| | | DIODE ZENER 16BSB-T26 or | NDTB016BST26 |
| | | ZENER DIODE DZ-16BSBT265 | NDTB00DZ16BS |
| D018 | | RECTIFIER DIODE BA158 or | NDQZ000BA158 |
| | | DIODE FAST RECOVERY BA158 or | NDLZ00BA158S |
| | | RECTIFIER DIODE BA158 | NDWZ000BA158 |
| D019 | | RECTIFIER DIODE FR203-B/P or | NDQZ000FR203 |
| | | DIODE FAST FR203 | NDLZ00FR203S |
| D020 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1001 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |
| | | DIODE 1N5397BD | NDL1001N5397 |
| D1002 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |
| | | DIODE 1N5397BD | NDL1001N5397 |
| D1003 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |
| | | DIODE 1N5397BD | NDL1001N5397 |
| D1004 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |
| | | DIODE 1N5397BD | NDL1001N5397 |
| D1006 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1011 | | ZENER DIODE MTZJT-7727B or | QDTB00MTZJ27 |
| | | DIODE ZENER 27BSB-T26 or | NDTB027BST26 |
| | | ZENER DIODE DZ-27BSBT265 | NDTB00DZ27BS |
| D1022 | | ZENER DIODE MTZJT-775.6B or | QDTB0MTZJ5R6 |
| | | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | | ZENER DIODE DZ-5.6BSBT265 | NDTB0DZ5R6BS |
| D1023 | | ZENER DIODE MTZJT-7736A or | QDTA00MTZJ36 |
| | | DIODE ZENER 36BSA-T26 or | NDTA036BST26 |
| | | ZENER DIODE DZ-36BSAT265 | NDTA00DZ36BS |
| D1025 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1030 | | SCHOTTKY BARRIER DIODE SB340 or | NDQZ000SB340 |
| | | DIODE SCHOTTKY SB340 or | NDLZ00SB340S |
| | | SCHOTTKY BARRIER DIODE SB340 | NDWZ000SB340 |
| D1031 | | SCHOTTKY BARRIER DIODE SB390 or | NDQZ000SB390 |
| | | DIODE SCHOTTKY SB390 or | NDLZ00SB390S |
| | | SCHOTTKY BARRIER DIODE SB390 | NDWZ000SB390 |
| D1032 | | SCHOTTKY BARRIER DIODE SB340 or | NDQZ000SB340 |
| | | DIODE SCHOTTKY SB340 or | NDLZ00SB340S |
| | | SCHOTTKY BARRIER DIODE SB340 | NDWZ000SB340 |
| D1035 | | SCHOTTKY BARRIER DIODE SB390 or | NDQZ000SB390 |
| | | DIODE SCHOTTKY SB390 or | NDLZ00SB390S |
| | | SCHOTTKY BARRIER DIODE SB390 | NDWZ000SB390 |
| D1101 | | SCHOTTKY BARRIER DIODE SB340 or | NDQZ000SB340 |
| | | DIODE SCHOTTKY SB340 or | NDLZ00SB340S |
| | | SCHOTTKY BARRIER DIODE SB340 | NDWZ000SB340 |
| D1102 | | ZENER DIODE MTZJT-776.8B or | QDTB0MTZJ6R8 |
| | | DIODE ZENER 6V8BSB-T26 or | NDTB6R8BST26 |
| | | ZENER DIODE DZ-6.8BSBT265 | NDTB0DZ6R8BS |
| D1103 | | RECTIFIER DIODE BA157 or | NDQZ000BA157 |
| | | DIODE FAST BA157 or | NDLZ00BA157S |
| | | RECTIFIER DIODE BA157 | NDWZ000BA157 |
| D1107 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1108 | | ZENER DIODE MTZJT-7718B or | QDTB00MTZJ18 |
| | | DIODE ZENER 18BSB-T26 or | NDTB018BST26 |
| | | ZENER DIODE DZ-18BSBT265 | NDTB00DZ18BS |
| D1109 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1110 | | ZENER DIODE MTZJT-7724B or | QDTB00MTZJ24 |
| | | DIODE ZENER 24BSB-T26 or | NDTB024BST26 |
| | | ZENER DIODE DZ-24BSBT265 | NDTB00DZ24BS |
| D1112 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1113 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1114 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D1115 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1116 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1117 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1118 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1119 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1120 | | ZENER DIODE MTZJT-7710B or | QDTB00MTZJ10 |
| | | DIODE ZENER 10BSB-T26 or | NDTB010BST26 |
| | | ZENER DIODE DZ-10BSBT265 | NDTB00DZ10BS |
| D1121 | | PCB JUMPER D0.6-P10.0 | JW10.0T |
| D1122 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1123 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1124 | | ZENER DIODE MTZJT-779.1B or | QDTB0MTZJ9R1 |
| | | DIODE ZENER 9V1BSB-T26 or | NDTB9R1BST26 |
| | | ZENER DIODE DZ-9.1BSBT265 | NDTB0DZ9R1BS |
| D1125 | | ZENER DIODE MTZJT-7715B or | QDTB00MTZJ15 |
| | | DIODE ZENER 15BSB-T26 or | NDTB015BST26 |
| | | ZENER DIODE DZ-15BSBT265 | NDTB00DZ15BS |
| D1126 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | DIODE RECTIFIER 1N4005 or | NDLZ01N4005S |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D1127 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1128 | | SCHOTTKY BARRIER DIODE SB140 or | NDQZ000SB140 |
| | | DIODE SCHOTTKY SB140 or | NDLZ00SB140S |
| | | SCHOTTKY BARRIER DIODE SB140 | NDWZ000SB140 |
| D1129 | | ZENER DIODE MTZJT-776.8B or | QDTB0MTZJ6R8 |
| | | DIODE ZENER 6V8BSB-T26 or | NDTB6R8BST26 |
| | | ZENER DIODE DZ-6.8BSBT265 | NDTB0DZ6R8BS |
| D1130 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1131 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1132 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| D1133 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1134 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1135 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |
| | | DIODE 1N5397BD | NDL1001N5397 |
| D1136 | | DIODE 1N5397-B or | NDLZ001N5397 |
| | | DIODE RECTIFIER IN5397 or | NDLZ01N5397S |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | DIODE 1N5397BD | NDL1001N5397 |
| D1137 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1138 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1139 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1140 | | DIODE 1ZC43(Q) | QDLZ001ZC43Q |
| D1142 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1144 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1145 | | SWITCHING DIODE 1SS400 TE61 or | QD1Z001SS400 |
| | | SWITCHING DIODE KDS160E-RTK/P | ND1ZKDS160EP |
| D1146 | | SCHOTTKY BARRIER DIODE SB340 or | NDQZ000SB340 |
| | | DIODE SCHOTTKY SB340 or | NDLZ00SB340S |
| | | SCHOTTKY BARRIER DIODE SB340 | NDWZ000SB340 |
| D1147 | | SCHOTTKY BARRIER DIODE SB140 or | NDQZ000SB140 |
| | | DIODE SCHOTTKY SB140 or | NDLZ00SB140S |
| | | SCHOTTKY BARRIER DIODE SB140 | NDWZ000SB140 |
| D1148 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| **ICS** | | | |
| IC1001 ⚠ | | PHOTOCOUPLER EL817A or | NPEA000EL817 |
| ⚠ | | PHOTOCOUPLER EL817B or | NPEB000EL817 |
| ⚠ | | PHOTOCOUPLER PS2561A-1(Q) or | QPEQPS2561A1 |
| ⚠ | | PHOTOCOUPLER PS2561A-1(W) | QPEWPS2561A1 |
| IC1101 | | IC SHUNT REGULATOR KIA431-AT/P | NSZBA0TJY036 |
| IC1102 | | IC SHUNT REGULATOR KIA431-AT/P | NSZBA0TJY036 |
| IC1103 | | VOLTAGE REGULATOR PQ070XF01SZH or | QSZBA0SSH054 |
| | | IC VOLTAGE REGULATOR PQ070XFC1SZF / 4PIN | QSZBA0RSH083 |
| IC1104 | | VOLTAGE REGULATOR PQ070XF01SZH or | QSZBA0SSH054 |
| | | IC VOLTAGE REGULATOR PQ070XFC1SZF / 4PIN | QSZBA0RSH083 |
| IC1105 | | IC REGULATOR TLV1117I TO-220 or | NSZBA0STY245 |
| | | IC REGULATOR UTC1117TA or | NSZBA0S2H004 |
| | | IC LD1117V | NSZBA0SSS046 |
| **COILS** | | | |
| L1001 | | BEAD CORE ASSEMBLY E3B91BD | 1VSA15663 |
| L1002 | | BEAD CORE ASSEMBLY E3B91BD | 1VSA15663 |
| L1003⚠ | | COIL LINE FILTER 56MH TLF24HB5630R3 or | LLEG0Z0TU001 |
| ⚠ | | COIL LINE FILTER 68MH HF2430-683Y0R4-T01 | LLBG00ZTE027 |
| L1004 | | BEAD CORE ASSEMBLY E3B91BD | 1VSA15663 |
| L1005 | | BEAD CORE ASSEMBLY E3B91BD | 1VSA15663 |
| L1013 | | POWER INDUCTORS CWKBNP-220K or | LLF2200KV002 |
| | | POWER INDUCTORS TWKBNP-220K or | LLC220KKV007 |
| | | CHOKE COIL(22μH) LHL10NB220K | LLARKGQTU220 |
| L1014 | | RADIAL LEADED INDUCTOR LHL13NB100K | LLC100KTU026 |
| L1100 | | POWER INDUCTORS CWKBNP-180K or | LLF1800KV002 |
| | | POWER INDUCTORS TWKBNP-180K or | LLC180KKV007 |
| | | CHOKE COIL(18μH) LHL10NB180K | LLARKGQTU180 |
| L1101 | | POWER INDUCTORS CWKBNP-180K or | LLF1800KV002 |
| | | POWER INDUCTORS TWKBNP-180K or | LLC180KKV007 |
| | | CHOKE COIL(18μH) LHL10NB180K | LLARKGQTU180 |
| **TRANSISTORS** | | | |
| Q1001⚠ | | MOS FET 2SK3798(Q) | QFWZ2SK3798Q |
| Q1003 | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1100 | | TRANSISTOR(PB FREE) KTC2026-Y/P | NQEYKTC2026P |
| Q1101 | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-GR(TE2 F T) | QQS12SA1015F |
| Q1102 | | TRANSISTOR KTB1151-Y-U/P | NQEY0KTB1151 |
| Q1103 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1104 | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | TRANSISTOR 2SC2120-Y(TE2 F T) | QQSY2SC2120F |
| Q1105 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q1106 | | TRANSISTOR KTC3266-GR-AT/P or | NQS4KTC3266P |
| | | TRANSISTOR 2SC3266-GR(TPE2 F) | QQS12SC3266F |
| Q1107 | | NPN TRANSISTOR KRC103M-AT/P or | NQSZKRC103MP |
| | | TRANSISTOR RN2203(TE4 F T) | QQSZ0RN2203F |
| Q1108 | | TRANSISTOR(PB FREE) KTC2026-Y/P | NQEYKTC2026P |
| Q1114 | | TRANSISTOR KTA1267-Y-AT/P or | NQSYKTA1267P |
| | | TRANSISTOR KTA1267-GR-AT/P | NQS1KTA1267P |
| Q1115 | | NPN TRANSISTOR KRC103M-AT/P or | NQSZKRC103MP |
| | | TRANSISTOR RN2203(TE4 F T) | QQSZ0RN2203F |
| **RESISTORS** | | | |
| R068 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R1003 | | CEMENT RESISTOR 3W K 1.5 Ω or | RW031R5PAK10 |
| | | CEMENT RES 3W K 1.5 Ω | RW031R5PG007 |
| R1004 | | CEMENT RESISTOR 5W J 1.0 Ω H 10MM or | RW051R0PAK10 |
| | | CEMENT RES. 5W K 1.0 Ω | RW051R0DP005 |
| R1005 | | CARBON RES. 1/4W J 560k Ω | RCX4JATZ0564 |
| R1006 | | CARBON RES. 1/4W J 680k Ω | RCX4JATZ0684 |
| R1007 | | CARBON RES. 1/4W J 680k Ω | RCX4JATZ0684 |
| R1008 | | CARBON RES. 1/4W J 820k Ω | RCX4JATZ0824 |
| R1009 | | CARBON RES. 1/4W J 22 Ω | RCX4JATZ0220 |
| R1029 | | CARBON RES. 1/4W J 180k Ω | RCX4JATZ0184 |
| R1033 | | CARBON RES. 1/4W J 56 Ω | RCX4JATZ0560 |
| R1035 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R1036 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R1037 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R1039 | | CARBON RES. 1/4W J 1.2k Ω | RCX4JATZ0122 |
| R1043 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R1097 | | CHIP RES. 1/10W J 390 Ω or | RRXAJR5Z0391 |
| | | RES CHIP 1608 1/10W J 390 Ω | RRXA391YF002 |
| R1101 | | CHIP RES. 1/10W J 680 Ω or | RRXAJR5Z0681 |
| | | RES CHIP 1608 1/10W J 680 Ω | RRXA681YF002 |
| R1102 | | CHIP RES. 1/10W F 2k Ω or | RRXAFR5H2001 |
| | | CHIP RES. 1/10W F 2k Ω or | RRXAFR5Z2001 |
| | | RES CHIP 1608 1/10W F 2.00k Ω | RTW2001YF002 |
| R1104 | | CARBON RES. 1/4W J 1.8k Ω | RCX4JATZ0182 |
| R1106 | | CHIP RES.(1608) 1/10W J 0.47 Ω or | RRXAR47HH007 |
| | | CHIP RES.(1608) RLC16KR470J | RRX8R47KE001 |
| R1107 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R1108 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R1110 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R1112 | | CHIP RES. 1/10W F 300 Ω or | RRXAFR5H3000 |
| | | CHIP RES.(1608) 1/10W F 300 Ω or | RRXAFR5Z3000 |
| | | RES CHIP 1608 1/10W F 300 Ω | RTW3000YF002 |
| R1113 | | CHIP RES. 1/10W F 1.0k Ω or | RRXAFR5H1001 |
| | | CHIP RES. 1/10W F 1k Ω or | RRXAFR5Z1001 |
| | | RES CHIP 1608 1/10W F 1.00k Ω | RTW1001YF002 |
| R1114 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1115 | | CHIP RES. 1/10W F 1.0k Ω or | RRXAFR5H1001 |
| | | CHIP RES. 1/10W F 1k Ω or | RRXAFR5Z1001 |
| | | RES CHIP 1608 1/10W F 1.00k Ω | RTW1001YF002 |
| R1117 | | CARBON RES. 1/4W J 2.2k Ω | RCX4JATZ0222 |
| R1118 | | METAL OXIDE FILM RES. 3W J 750 Ω or | RN03751ZU001 |
| | | METAL OXIDE FILM RES. 3W J 750 Ω | RN03751DP005 |
| R1119 | | CHIP RES. 1/10W J 220k Ω or | RRXAJR5Z0224 |
| | | RES CHIP 1608 1/10W J 220k Ω | RRXA224YF002 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| R1120 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1123 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R1124 | | CARBON RES. 1/4W J 1.1k Ω | RCX4JATZ0112 |
| R1125 | | CARBON RES. 1/4W J 1.1k Ω | RCX4JATZ0112 |
| R1126 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1127 | | CARBON RES. 1/4W J 1.1k Ω | RCX4JATZ0112 |
| R1128 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1129 | | CARBON RES. 1/6W J 100k Ω or | RCX6JATZ0104 |
| | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R1130 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1131 | | CHIP RES. 1/10W F 18k Ω or | RRXAFR5H1802 |
| | | CHIP RES.(1608) 1/10W F 18k Ω or | RRXAFR5Z1802 |
| | | RES CHIP 1608 1/10W F 18.0k Ω | RTW1802YF002 |
| R1132 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1133 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1134 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R1135 | | CHIP RES. 1/10W F 4.7k Ω or | RRXAFR5H4701 |
| | | CHIP RES.(1608) 1/10W F 4.7k Ω or | RRXAFR5Z4701 |
| | | RES CHIP 1608 1/10W F 4.70k Ω | RTW4701YF002 |
| R1136 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1138 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R1139 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R1140 | | CARBON RES. 1/6W J 560 Ω or | RCX6JATZ0561 |
| | | CARBON RES. 1/4W J 560 Ω | RCX4JATZ0561 |
| R1141 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R1142 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1143 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R1144 | | CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 |
| | | CHIP RES. 1/10W F 10k Ω or | RRXAFR5Z1002 |
| | | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R1145 | | CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 |
| | | CHIP RES. 1/10W F 10k Ω or | RRXAFR5Z1002 |
| | | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R1146 | | CHIP RES. 1/10W F 15k Ω or | RRXAFR5H1502 |
| | | CHIP RES. 1/10W F 15k Ω or | RRXAFR5Z1502 |
| | | RES CHIP 1608 1/10W F 15.0k Ω | RTW1502YF002 |
| R1147 | | CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 |
| | | CHIP RES. 1/10W F 10k Ω or | RRXAFR5Z1002 |
| | | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R1148 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1149 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1150 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R1151 | | CHIP RES. 1/10W F 100 Ω or | RRXAFR5H1000 |
| | | CHIP RES. 1/10W F 100 Ω or | RRXAFR5Z1000 |
| | | RES CHIP 1608 1/10W F 100 Ω | RTW1000YF002 |
| R1152 | | CHIP RES. 1/10W F 220 Ω or | RRXAFR5H2200 |
| | | CHIP RES.(1608) 1/10W F 220 Ω or | RRXAFR5Z2200 |
| | | RES CHIP 1608 1/10W F 220 Ω | RTW2200YF002 |
| R1153 | | CHIP RES. 1/10W F 1.5k Ω or | RRXAFR5H1501 |
| | | CHIP RES. 1/10W F 1.5k Ω or | RRXAFR5Z1501 |
| | | RES CHIP 1608 1/10W F 1.50k Ω | RTW1501YF002 |
| R1154 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1155 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1157 | | CARBON RES. 1/4W J 2.2k Ω | RCX4JATZ0222 |
| R1158 | | CHIP RES.(1608) 1/10W F 10 Ω or | RRXAFR5H0100 |
| | | CHIP RES. 1/10W F 10 Ω or | RRXAFR5Z10R0 |
| | | RES CHIP 1608 1/10W F 10 Ω | RTW10R0YF002 |
| R1159 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R1160 | | CARBON RES. 1/6W J 220k Ω or | RCX6JATZ0224 |
| | | CARBON RES. 1/4W J 220k Ω | RCX4JATZ0224 |
| R1161 | | CARBON RES. 1/4W J 820k Ω | RCX4JATZ0824 |
| R1162 | | CARBON RES. 1/4W J 18 Ω | RCX4JATZ0180 |
| R1163 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R1164 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R1165 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1166 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R1167 | | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R1170 | | CARBON RES. 1/4W J 120 Ω | RCX4JATZ0121 |
| R1171 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R1172 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1174 | | CHIP RES. 1/10W F 330 Ω or | RRXAFR5H3300 |
| | | CHIP RES. 1/10W F 330 Ω or | RRXAFR5Z3300 |
| | | RES CHIP 1608 1/10W F 330 Ω | RTW3300YF002 |
| R1177 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| | | **MISCELLANEOUS** | |
| AC1001 ⚠ | | AC CORD PE8G2CG9G0AB05 or | WAE0172LW011 |
| ⚠ | | AC CORD WITH A GND WIRE L0A0280-010 | WAE0172LTE08 |
| B-5A | | HEAT SINK E2A00JD | 1VM424636 |
| B-5B | | POWER HEATSINK E3B90ED | 1VM425352 |
| CL1001 | | FFC CONNECTOR 30PIN IMSA-9615S-30A-PP-A or | JC96J30ER007 |
| | | FFC CONNECTOR 30PIN 00 6232 030 006 800+ | JC62G30UG026 |
| F1001⚠ | | FUSE TIME RAG TSD2A250VSVDEUC3CPSE or | PEG20B0W3002 |
| ⚠ | | FUSE 50T020H 2.0A/250V | PAGH20BHV202 |
| FH1001 | | FUSE HOLDER MSF-015 LF (B110) or | XH01Z00LY002 |
| | | FUSE HOLDER DFH-001 | XH01Z00RP001 |
| FH1002 | | FUSE HOLDER MSF-015 LF (B110) or | XH01Z00LY002 |
| | | FUSE HOLDER DFH-001 | XH01Z00RP001 |
| L-9N | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L-9O | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| T1001⚠ | | TRANS POWER BCK-35-0341 or | LTT3PE0XB006 |
| ⚠ | | TRANS POWER 7710 | LTTZPE0KT009 |
| W2 | | FFC PW-MAIN 30P 30PIN/TL313MM | WX1E3B00-002 |
| W3 | | FFC AV-PW 30P 30PIN/TL90MM | WX1E3B00-003 |
| W4 | | FFC AV-SW 20P 20PIN/TL136MM | WX1E3B00-004 |
| W8 | | WIRE ASSEMBLY 4P AWG22/ 105MM | WX1E4340-008 |

## FRONT JACK CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | FRONT JACK CBA (PW/SW-B) Consists of the following: | --------- |
| | | **CAPACITORS** | |
| C3006 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C3007 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| | | **CONNECTOR** | |
| CN3001 | | FMN CONNECTOR SIDE 20P 20FMN-STRK-A(LF)(SN) | JCFNG20JG022 |
| | | **DIODES** | |
| D3001 | | LED(RED) 1254IT | NPQZ0012541T |
| D3002 | | LED(RED) 1254IT | NPQZ0012541T |
| D3003 | | LED(AMBER YELLOW) LTL1CHKYKNN | NPQZ1CHKYKNN |
| D3004 | | LED(BLUE) LTL1CHCBK2-F | NPQ3L1CHCBK2 |
| D3005 | | LED(GREEN) LTL1CHJGTNN | NPQZ1CHJGTNN |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| D3008 | | ZENER DIODE MTZJT-776.2B or | QDTB0MTZJ6R2 |
| | | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | | ZENER DIODE DZ-6.2BSBT265 | NDTB0DZ6R2BS |
| D3009 | | ZENER DIODE MTZJT-776.2B or | QDTB0MTZJ6R2 |
| | | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | | ZENER DIODE DZ-6.2BSBT265 | NDTB0DZ6R2BS |
| D3010 | | ZENER DIODE MTZJT-776.2B or | QDTB0MTZJ6R2 |
| | | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | | ZENER DIODE DZ-6.2BSBT265 | NDTB0DZ6R2BS |
| D3011 | | ZENER DIODE MTZJT-776.2B or | QDTB0MTZJ6R2 |
| | | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | | ZENER DIODE DZ-6.2BSBT265 | NDTB0DZ6R2BS |
| **RESISTORS** | | | |
| R3001 | | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R3002 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R3003 | | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R3004 | | CARBON RES. 1/4W J 680 Ω | RCX4JATZ0681 |
| R3005 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R3006 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R3007 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R3008 | | CHIP RES. 1/10W J 220 Ω or | RRXAJR5Z0221 |
| | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| R3010 | | CARBON RES. 1/4W J 820 Ω | RCX4JATZ0821 |
| R3011 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R3013 | | CHIP RES. 1/10W J 300 Ω or | RRXAJR5Z0301 |
| | | RES CHIP 1608 1/10W J 300 Ω | RRXA301YF002 |
| R3014 | | CHIP RES. 1/10W J 360 Ω or | RRXAJR5Z0361 |
| | | RES CHIP 1608 1/10W J 360 Ω | RRXA361YF002 |
| R3015 | | CHIP RES. 1/10W J 620 Ω or | RRXAJR5Z0621 |
| | | RES CHIP 1608 1/10W J 620 Ω | RRXA621YF002 |
| R3016 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R3017 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R3018 | | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R3022 | | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R3023 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R3026 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R3029 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R3032 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R3035 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R3038 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| **SWITCHES** | | | |
| SW3001 | | SWITCH TACT KSM0634B PB(F) or | SST0101HH036 |
| | | SWITCH TACT SKHHLRA010 | SST0101AL071 |
| SW3002 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3003 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3004 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3005 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3006 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3007 | | TACT SWITCH SKQSAF001A or | SST0101AL041 |
| | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| **MISCELLANEOUS** | | | |
| B-9A | | BUSH LED(F) H3700UD | 0VM409508 |
| B-9B | | BUSH LED(F) H3700UD | 0VM409508 |
| B-9C | | BUSH LED(F) H3700UD | 0VM409508 |
| B-9D | | BUSH LED(F) H3700UD | 0VM409508 |
| B-9E | | BUSH LED(F) H3700UD | 0VM409508 |
| JK3001 | | RCA JACK(YELLOW) MTJ-032-05B-20(B110) | JXRL010LY135 |
| JK3002 | | RCA JACK(WHITE) MTJ-032-05B-22(B110) | JXRL010LY136 |
| JK3003 | | RCA JACK(RED) MTJ-032-05A-21(B110) | JYRL010LY029 |
| JK3004 | | MINI DIN SOCKET MDC1-34-020 or | JXEL040RP003 |
| | | S TYPE JACK DIN-405 | JXEL040YUQ02 |
| W7 | | WIRE ASSEMBLY FLAT CABLE 5P AWG26#2651/P2.0/120 | WX1E3B00-014 |

## SW CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | SW CBA (PW/SW-C)<br>Consists of the following: | ---------- |
| **DIODE** | | | |
| D3006 | | LED(RED) 1254IT | NPQZ0012541T |
| **RESISTORS** | | | |
| R3021 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| **SWITCHES** | | | |
| SW3002 | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3003 | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3004 | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3005 | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3006 | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3007 | | TACT SWITCH KSM0614B or | SST0101HH013 |
| | | TACT SWITCH TC-1104(H=9.5) | SST0101DNG01 |
| SW3008 | | TACT SWITCH SKQSAF001A | SST0101AL041 |
| SW3009 | | TACT SWITCH SKQSAF001A | SST0101AL041 |
| SW3010 | | TACT SWITCH SKQSAF001A | SST0101AL041 |
| **MISCELLANEOUS** | | | |
| B-9F | | BUSH LED(F) H3700UD | 0VM409508 |

## REAR JACK CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | REAR JACK CBA (PW/SW-D)<br>Consists of the following: | ---------- |
| **CAPACITORS** | | | |
| C2001 | | ELECTROLYTIC CAP. 100μF/16V M | CE1CMASDL101 |
| C2002 | | ELECTROLYTIC CAP. 470μF/6.3V M | CE0KMASDL471 |
| C2003 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C2004 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C2005 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C2006 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C2007 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C2008 | | CHIP CERAMIC CAP.(1608) B K 1000pF/50V | CHD1JK30B102 |
| C2009 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C2010 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| C2011 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| C2012 | | ELECTROLYTIC CAP. 1µF/50V M | CE1JMASDL1R0 |
| C2013 | | CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V | CHD1JK30B102 |
| **DIODES** | | | |
| D2001 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2002 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2003 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2004 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2005 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2006 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2007 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2008 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2009 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| D2010 | | ZENER DIODE MTZJT-7711A or | QDTA00MTZJ11 |
| | | DIODE ZENER 11BSA-T26 or | NDTA011BST26 |
| | | ZENER DIODE DZ-11BSAT265 | NDTA00DZ11BS |
| **COIL** | | | |
| L2003 | | BEAD CORE ASSEMBLY E3B91BD | 1VSA15664 |
| **TRANSISTORS** | | | |
| Q2001 | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-GR(TE2 F T) | QQS12SA1015F |
| Q2002 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| Q2003 | | TRANSISTOR KTC3199-Y-AT/P or | NQSYKTC3199P |
| | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | | TRANSISTOR 2SC1815-GR(TE2 F T) | QQS12SC1815F |
| **RESISTORS** | | | |
| R2001 | | CARBON RES. 1/6W J 680 Ω or | RCX6JATZ0681 |
| | | CARBON RES. 1/4W J 680 Ω | RCX4JATZ0681 |
| R2002 | | CHIP RES. 1/10W J 220 Ω | RRXAJR5Z0221 |
| R2003 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R2005 | | CARBON RES. 1/4W J 820 Ω | RCX4JATZ0821 |
| R2006 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R2007 | | CARBON RES. 1/4W J 820 Ω | RCX4JATZ0821 |
| R2008 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R2009 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R2010 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R2011 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R2012 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R2013 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R2014 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R3021 | | RES CHIP 1608 1/10W J 220 Ω | RRXA221YF002 |
| **MISCELLANEOUS** | | | |
| B-24 | | 21P EARTH PLATE E7B20ED | 1VM423185 |
| JK2001 | | RGB CONNECTOR MRC-021V-03 ABS(B11 | JXGL210LY006 |
| JW2001 | | FLAT CABLE 15P AWG26#2651/P2.0/70 | WX1E7B20-002 |

# AFV CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | A<br>B,C | AFV CBA<br>AFV CBA<br>Consists of the following: | 1VSA15651<br>1VSA15656 |
| **CAPACITORS** | | | |
| C1 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or | CHD1JZ30F104 |
| | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V | CHD1EZ30F104 |
| C4 | | CHIP CERAMIC CAP. CH J 56pF/50V | CHD1JJ3CH560 |
| C5 | | CHIP CERAMIC CAP.(1608) CH J 22pF/ 50V | CHD1JJ3CH220 |
| C6 | | CHIP CERAMIC CAP. CH J 56pF/50V | CHD1JJ3CH560 |
| C7 | | CHIP CERAMIC CAP. CH C 3pF/50V or | CHD1JC3CH3R0 |
| | | CHIP CERAMIC CAP. CJ C 3pF/50V or | CHD1JC3CJ3R0 |
| | | CHIP CERAMIC CAP. CH D 3pF/50V | CHD1JD3CH3R0 |
| C8 | | CHIP CERAMIC CAP. CH C 3pF/50V or | CHD1JC3CH3R0 |
| | | CHIP CERAMIC CAP. CJ C 3pF/50V or | CHD1JC3CJ3R0 |
| | | CHIP CERAMIC CAP. CH D 3pF/50V | CHD1JD3CH3R0 |
| C11 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V | CHD1JK30B103 |
| C12 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMASSL100 |
| C13 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V | CHD1JK30B103 |
| C14 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V | CHD1JK30B103 |
| C15 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMASSL100 |
| C16 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMASSL100 |
| C17 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or | CHD1JZ30F104 |
| | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V | CHD1EZ30F104 |
| C19 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or | CHD1JZ30F104 |
| | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V | CHD1EZ30F104 |
| C20 | | ELECTROLYTIC CAP. 3.3µF/50V M H7 | CE1JMASSL3R3 |
| C21 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or | CHD1JZ30F104 |
| | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V | CHD1EZ30F104 |
| C22 | | ELECTROLYTIC CAP. 10µF/16V M H7 | CE1CMASSL100 |
| C24 | | ELECTROLYTIC CAP. 0.22µF/50V M H7 | CE1JMASSLR22 |
| C27 | | CERAMIC CAP.(AX) F Z 0.1µF/50V | CCA1JZTFZ104 |
| **CONNECTOR** | | | |
| CN1 | | ANGLE PIN HEADER 9P IMSA-6029B-1-09Z003- | JTED009ER045 |
| **DIODES** | | | |
| D2 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING 1N4148-F0021 or | NDTZ01N4148F |
| | | SWITCHING DIODE 1N4148M | NDTZ01N4148M |
| **ICS** | | | |
| IC1 | A | IC AUDIO PROCESSOR MSP3407G-QG-B8-V3 | NSZBA0SP3004 |
| IC1 | B,C | IC AUDIO PROCESSOR MSP3417G-QG-B8-V3 | NSZBA0SP3005 |
| **COILS** | | | |
| L1 | | INDUCTOR 10µH-K-5FT | LLARKBSTU100 |
| L2 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| L3 | | INDUCTOR 18µH-K-26T | LLAXKATTU180 |
| L4 | | INDUCTOR 10µH-K-5FT | LLARKBSTU100 |

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | **RESISTORS** | |
| R1 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R4 | | CHIP RES. 1/10W J 120k Ω or | RRXAJR5Z0124 |
| | | RES CHIP 1608 1/10W J 120k Ω | RRXA124YF002 |
| R5 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R6 | | CHIP RES.(1608) 1/10W 0 Ω | RRXAZR5Z0000 |
| R6 | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| | | **MISCELLANEOUS** | |
| X1 | | XTAL 18.432MHz | FXD186LLN001 |
| X1 | | RESONATOR XTAL 186 910A018432-1030300 | FXD186LXGE01 |

# ATA CBA

| Ref. No. | Mark | Description | Part No. |
|---|---|---|---|
| | | ATA CBA<br>Consists of the following: | 1VSA15986 |
| | | **CONNECTORS** | |
| CN3001 | | IDC SOCKET 40PIN VT YKF43-0025 | JCYKC40JC002 |
| CN3001 | | CONNECTOR PRINT MES IMSA-9353S-40B-GT | JC93400ER001 |
| CN3002 | | FPC/FFC CONNECTOR(40PIN) FH12-40S-0.5SH(89) | JCFHD40HQ007 |

T3A-A8182DB/T3A-D8182DB/T3D-D8182DB
E3B40/43/44ED
2007-05-30